

APPENDIX B: AMINO ACID SEQUENCES

> RXA00013 (1-873, translated) 291 residues
 MEGMTNPEQT HPAASLEDMI KTITKTFVIA HDQDSDEHLA QALVYNAGRL AWRMRENGVD
 TDYKTSVSDV VTDADRAAEA FVAGVLEALR PEDGVLGEEG ADRASKSGKT WVIDPVDGTY
 NFTQGS DYWC SALALVEGDP SAPSRVLF GA VHRPAMGYTW FGGPGIRTTL DGKELDLLVD
 APLNQISLAT YIHPSRIAEP DIQKAWMSVA THPATLRMFG AGSIDLANIA DGSMGAWVQH
 SVADWDWLPG RALIEGVGGA CIKVTAGGVE WSVAGNAEAV SEISETLSAL D

> RXA00014 (1-780, translated) 260 residues
 MSKYADDLAL ALELAELADS ITLDRFEASD LEVSSKPDMT PVSDADLATE EALREKIATA
 RPADSILGEE FGGDVEFSGR QWIIDPIDGT KNYVRGVPVW ATLIALLDNG KPVAGVISAP
 ALARRWWASE GAGAWRTFNG SSPRKLSVSQ VSKLDDASLS FSSLSGWAER DLRDQFVSLT
 DTTWRLRGYG DFFSYCLVAE GAVDIAAEPE VSLWDLAPLS ILVTEAGGKF TSLAGVDGPH
 GGDVATNGI LHDETLDRLK

> RXA00030 (1-390, translated) 130 residues
 MRIEITSV FV DDQAKALDFY TTKLGFELKH DVTAGDYRWL TVVDPENPDG VQLLLEPNQH
 PDAATYQAGI KRDGIPATQF YVDDVQEEYD SLKDKGVDFI MEPTDVGPSV IAILDDTVGN
 LIQIVQLKQN

> RXA00032 (1-1509, translated) 503 residues
 MNTPLQLNTE NLQEIASTSG VQIPAFNRAD VAPGIVHFGV GGFHRAHQAM YLNELMNEGK
 ALDWGIIGMG VMPSDV MRD ALASQDHL YT LTTKAPDGTL DQKIIGSIID YVFAPEDPAR
 AVATLAQDSI RIVSLTVTEG GYNIDPATED FDHTNPRIVA DREALQAGDT STLQTFGLI
 TAALISRKES GSTPFTIMSC DNIQNGNDLA KRFFLAFAHS VSSELGEWVE NNVAFPNSMV
 DRITPETTDG DRDDIKEIGY IDAWPVVSED FTQWVLEDAF TQGRPAYEEV GVQVVDVEP
 YELMKLRLN ASHQGLCYFG HLAGHHMVHD VMADTRFQDF LLAYMEREAT PTLKELPGVD
 LDAYRRQLIA RFGNAAVKDT VPRLC AESSD RIPKWLLPVV RENLAAGRDV TLSAAIVASW
 ARYAEGTDEQ GNPIKIVDRL SERVQENASG NRTDILSFIR DRGIFGDLVD AEPFTKAYSE
 TLSSLHDRGA EATIDALLTQ VTV

> RXA00038 (1-1158, translated) 386 residues
 MSFAEHAIW HVYPLGALGA PIRPEAPAPV THRLPNLIGW LDYVVELGCN ALMLGPVFES
 VSHGYD LDF YRIDPRLGTE EDM DALLEAA NQRGIGV LFD GVFNHVSSSS KYLDLTGAS
 FEGHDILAEL DHTNPAVDL VVDVMNH WLD RGIAGWRLDA VYAIAP EFWE KVLPEVRRKH
 PHAWIVGEMI HGDYS DYVKS SGIDSVTEYE LWKAIWSSIK ERNFFELEWT LSRHNEFLDT
 FVPQTFIGNH DVTRIATRIG QSNAILAAAI LFTVGGTPSI YYGDEQGFTG LKEDNVFGDD
 AIRPPLPAEF SPLGTWIENI YKALIALRRQ HPWLYQAHT E VLEIANEAMT YKSVGLG GEE
 LTVHLDLEE SVRILDGEKV LFQYSA

> RXA00041 (1-1242, translated) 414 residues
 MHTELSSLRP AYHVTPPQGR LNDPNGMYVD GDTLHVYYQH DPGFPFAPKR TGWAHTTTPL
 TGPQRLQWTH LPDALYPDAS YDL DGCYSGG AVFTDGT LKL FYTGNL KIDG KRRATQNLVE
 VEDPTGLMGG IHRRSPKNPL IDGPASGFTP HYRDPMISPD GDGWMVLGA QRENLTGA AV
 LYRSTDL ENW EFSGEITFDL SDAQPGSAPD LVPGGYMWEC PNLFTLRDEE TGEDLDVLI F
 CPQGLDRIHD EVTHYASSDQ CGYVVGKLEG TTFRVLRGFS ELDFGHEFYA PQVAVNGSDA
 WLVGWMGLPA QDDHPTVARE GWVHCLTVPR KLHLRNHAIY QELLPEGES GVIRSVLGSE
 PVRVDIRGNI SLEWDGVRLS VDRGGDRRVA EVKPGELVIA DDNTAIEITA GDGQ

> RXA00042 (1-759, translated) 253 residues
 MDIIICKDEQ EVGKAAAALI APFATKGGTL GLATGSSPLS TYQELIRMYE AGEVSFKNCK
 AFLDDEYVGL TRDDENS YFK TIRKEFTDHI DIVDEEVYSP DGANPD PYEA AA EYEAKIAA
 ESDVQILGI GGNGHIAFNE PSSSLSG LTK VQALHPKTVE DNARFFNTIE EVPTHALTQ G
 LGTLSRAQNI VLVATGEGKA DAIRGTVEGP LTAMCPGSIL QMHNNATIIV DEAAASKLEN
 ADHYRLMEQL KLR

> RXA00043 (1-1164, translated) 388 residues

MAEVVHYQEN AGQAVKKIEG RIVTPHGVID GFLQLENGII TELSGEPAPK NAGFHPPELPT
 IVPSFIDLHN HGGNGGAFPT GTQDQARNAA QYHREHGTTV MLASMVSAPA DALAAQVENL
 IPLCEEGLLC GIHLEGPFIN ACRCGAQNPDL FIFPGNPTDL AQVIHAGKGW IKSITVAPET
 DNLTELLDLC AAHHIIASFSG HTDADFDTT SAIALAKEKN VTVTATHLFN AMPPLHHRDP
 GSVGALLAAA RAGDAYVELI ADGVHLADGT VDLARSNNAF FITDAMEAAG MPDGEYILGV
 LNVTVTDGVA RLRDGGAIAG GTSTLASQFV HHVRRGMTLI DATLHTSTVA AKILGLSDHE
 IVKSNPVNFV VFDSNGQLQQ VHLDHQVI

> RXA00055 (1-138, translated) 46 residues
 VDVVDIARWQ FGITTVYHFI FVPLTIGLAP LVAIMQTFWQ VTGKEH

> RXA00098 (1-1620, translated) 540 residues
 MADISTTQVW QDLTDHYSNF QATTTLRELK EENRAEKYTF SAAGLHVDLS KNLLDDATLT
 KLLALTEESG LRERIDAMFA GEHLNNTEDR AVLHTALRLP AEADLSVDGQ DVAADVHEVL
 GRMRDFATAL RSGNWLGHGT HTIKKIVNIG IGGSDLGPAM ATKALRAYAT AGISAEFVSF
 VDPADLVSVL EDLDAESTLF VIASKTFTTQ ETLSNARAAR AWLVEKLGEA AVAKHFVAVS
 TNAEKVAEFG IDTDNMFGFW DWVGGGRYSVD SAVGLSLMAV IGPRDFMRFL GGFHAMDEHF
 RTTKFEENVF ILMALLGVWY SDFYGAETHA VLPYSEDLSR FAAYLQQLTM ESNGKSVHRD
 GSPVSTGTGE IYWGEPTNG QHAFFQLIHQ GTRLVPADFI GFARPKQDLP AGERTMHDLL
 MSNFFAQTKV LAFGKNAEEI AAEVGAPELV NHKVMGPNRP TTTILAEELT PSILGALIAL
 YEHIWMVQGV IWDINSFDQW GVELGKQQAN DLAPAVSGEE DVDSGDSSTD SLIKWYRANR

> RXA00148 (1-1998, translated) 666 residues
 MTSIPNFSID PLTAETRASE SHNVDAKGVW NTPEGIDVCR VFTQADRDEA QAAGHPVDSL
 PGQKPFMRGP YPTMYTNQPW TIRQYAGFST AAESNAFYRR NLAAGQKGLS VAFDLATHRG
 YDSDNERNVVG DVGMAVGAID SILDNRQLFD GIDLSSVSVS MTMNGAVLPI LAFYIVAAEE
 QGVGPEQLAG TIQNDILKEF MVRNTYIYPP KPSMRIISNI FEYTSKMPR FNSISISGYH
 IQEAGATADL ELAYTLADGI EYIRAGKEVG LDVDKFAFRL SFFWGISMVY FMEIAKLKRG
 RLLWSELVAK FDPKNKASQS LRTHSQTSVG SLTAQDVYNN VARTAEIAMA ATQGHQSLH
 TNALDEALAL PTDFSARIAR NTQLLLQOES GTVRPVPDPA GSYYVEWLTN ELANRARKHI
 DEVEEAGGMA QATAQGIPKL RIEESAARTQ ARIDSGRQAL IGVNRYVAEE DEEIEVLKVD
 NTKVRAEQLA KLAQLKAERN DAEVKAALDA LTAAARNEHK EPGDLQNL KLAVDAAKAR
 ATIGEISDAL EVVFGREHAE IRTLSGVYKD EVGKEGTVSF VERAIALADA FEAEEGRRPR
 IFIAKMGQDG HDRGQKVVAS AYADLGMDVD VGPLFQTPAE AARAAVDADV HVVGMSSSLAA
 GHLTLL

RXA00149 (1-1848, translated) 616 residues
 LTDLTKTAVP EELSENLETW YKAVAGVFAR TQKKDIGDIA VDVWKKLIVT TPDGVDINPL
 YTRADESQRK FTEVPGEFPF TRGTTVDGER VGWGVTEFTG HDSPKNINAA VLNALNSGTT
 TLGFEFSEEF TAADLKVALE GYVLNMAPLL IHAGGSTSEV AAALYTLAEE AGTFFAALTL
 GSRPLTAQVD GSHSDTIEEA VQLAVNASKR ANVRAILVDG SSFSNQGASD AQEIGLSIAA
 GVDYVRRLLD AGLSTEAAALQ QVAFRFAVTD EQFAQISKLR VARRLWARVC EVLGFPELAV
 APQHAVTARA MFSQRDPWVN MLRSTVAFAA AGVGGATDVE VRTFDDAIPD GVPVSRNFA
 HRIARNTNLL LLEESHLGHV VDPAGGSYFV ESFTDDLAEK AWAVFSGIEA EGGYSAACAS
 GTVTAMLDQT WEQTRADVAS RKKKLTGINE FPNLAESPLP ADRRVEPAGV RRWAADFEAL
 RNRSDAFLEK NGARPQITMI PLGPLSKHNI RTGFTSNLLA SGGIEAINPG QLVPGTDAFA
 EAAQAAGIVV VCGTDQEYAE TEGEAVEKLR EAGVERILLA GAPKSFEGSA HAPDGYLNMT
 IDAAATLADL LDALGA

> RXA00195 (1-561, translated) 187 residues
 VTKKILILGS TGSIGTQALD VIADNSDKFE VVGIAAGGSQ PDLVISQAQQ LGLAADKVAV
 ADAQAAAVIS KALGGEIISG TDAAKILVET TKADTVLNAL VGSLGLAATL ATLESGAHLA
 LANKESLVAG GEFVTSKAKL GQIIPVDSEH SAMAQCLRSG TRDEVARIVL TASGGPFRAF
 PGRRGR

> RXA00196 (1-615, translated) 205 residues
 MWEVTPEQAA AHPTWAMGQM NTLNSATLIN KGLELIEATL LFETDADLID VTVHPQSIIH
 SMITFTDGAT IAQASPPSMK LPIALALDWP HRVPKAPAL DFTAAHTWAF EPVDDAAFFA
 VQLARHVAKQ KGTYPAVYNA ANEEAAEAFL RGRIKFPQIV DVVDEVLQGA SQFAGVASHV
 DDILATESEA RARANALINR LATNL

> RXA00202 (1-942, translated) 314 residues
 MYARKLIALS ASVVLAFLSLS ACNRESSGTS ADGGSADGSI TLALSTQTNP FFFVQLRDGAQ
 EKADELGVTL NVQDASDDAA TQANQLNNAV TTGAGVVIVN PTDSDAVVPs VEALNQADIP
 VVAVDRSSNG GEVASFVASD NVAGGAQAAA ALAEAIGGEG EILMLQGIAG SSASRDRGQG
 FEEEIAKHEG ISIVAKQTAN FDRGEGLDVA TNLLQAHNV KAIFAENDEM ALGAIEALGA
 RAGEDVIVVG FDGTNDGLAA VEDGRMLATV AQQPEELGAK AVEEAAKLLR GEDAETEVPV
 EVVTVKLDNV ADFK

> RXA00206 (1-1038, translated) 346 residues
 MEDMRIATLT SGGDCPGLNA VIRGIVRTAS NEFGSTVVGY QDGWEGLLGD RRVQLYDDED
 IDRILLRGGT ILGTGRLHPD KFKAGIDQIK ANLEDAGIDA LIPIGGEGTL KGAKWLSDNQ
 IPVVGVPKTI DNDVNGTDFT FGFDTAVAVA TDAVDRLLHTT AESHNRVMIV EVMGRHVGWI
 ALHAGMAGGA HYTVIPEVPF DIAEICKAME RRFQMGEKYG IIVVAEGALP REGTMELREG
 HIDQFGHKTF TGIGQQIADE IHVRLGHDVR TTVLGHIQRG GTPAFDRVL ATRYGVRAAR
 ACHEGSFDKV VALKGESIEM ITFEEAVGTL KEVPFERWVT AQAMFG

> RXA00224 (1-951, translated) 317 residues
 MSISYVLVEQ LDGRPEPVTI ELITAARALG DVVAVVVGEP GAGVNLAAEL GNWGAAQVVS
 AEISGASNRL ILPAVDALHI LAANNPGPIV IAATASGNEI AGRLAARLAS GVLTDVVGIN
 ADRTAQSSIF GDTIQVSAAV GGASPLYTLR PGALDGVAVP ATGELATIEI PGATAKDVTI
 TSFTPTSTQSD RPELPQAKVV IAGGRGVGSE ENFRSIVEPL ADALGGAVGA TRDAVDLGYG
 PGEYQVGQTG VTVSPDLYIG LGISGAIQHT SGMQTAKKVI VINNDEDAPI FQIADLGVVG
 DLFDIAPALI EEINKRK

> RXA00225 (1-786, translated) 262 residues
 MSTIVVLVKN VPDTWSKRTL EADFTLDREG VDRVLDEINE FALEQALRLR ESNPDAGYRV
 VALSAGPAGG EEALRKALSM GADEAIQLSD DALAGS DLLG TAWALNNAIN TIAGVALIVT
 GSASSDGS MG ALPGVLAEYR QVPALTNLSA LKVEGASITA TRIDNHGTYE LQALPAVVS
 ISDKADKPRF PNFKGIMAAK KAEIKKLSLA EIGVAPEQVG LSHAATAVTA AADRPERSQG
 DVIGASGAAE KIAEYLASEN LI

> RXA00235 (1-1275, translated) 425 residues
 VAEIMHVFAR EILDSRGNPT VEADEVFLDDG SHGVAGVPSG ASTGVHEAHE LRDGGDRYLG
 KGVLKAVENV NEEIGDELAG LEADDQRLID EAMIKLDGTA NKSRLGANAI LGVSMATAKA
 AADSAGLPLF RYIGGPNHV LPVPMNIIIT GGAHADSGVD VQEFMIAPIG AETFSEALRN
 GAEVYHALKS VIKKGLSTG LGDEGGFAPS VGSTREALDL IVEAIEKAGF TPGKDIALAL
 DVASSEFFKD GTYHFEGGQH SAAEMANVYA ELVDAYPIVS IEDPLQEDDW EGYTNLTATI
 GDKVQIVGDD FFVTNPERLK EGIAKKAANS ILVKVNQIGT LTETFDVAVDM AHRAGYTSMM
 SHRSGETEDT TIADLAVALN CGQIKTGAPA RSDRVAKYNQ LLRIEQLLGD AGVYAGRSFAF
 PRFQG

> RXA00246 (1-1035, translated) 345 residues
 MTTAAPQEFT AAVVEKFGHD VTVKDIDLK PGP HQALVKV LTSGICHTDL HALEGDWVPK
 PEPFVPGHE GVGEVVELGP GEHDVKVGD VGNALWSAC GTCEYCITGR ETQCNEAEYG
 GYTQNGSFGQ YMLVDTRYAA RIPDGV DYLE AAPILCAGVT VYKALKVSET RPGQFMVISG
 VGGLGHIAVQ YAAAMGM RVI AVDIADDKLE LARKHGAEFT VNARNEDSGE AVQKYTNNGA
 HGVLVTAVHE AAFGQALDMA RRAGTIVFNG LPPGEFPASV FNIVFKGLTI RGS LVGTRQD
 LAEALDFFAR GLIKPTVSEC SLDEVNGVLD RMRNGKIDGR VAIRF

> RXA00251 (1-708, translated) 236 residues
 MKKKIAVVTG ATGGMGIEIV KDLSRDHIVY ALGRNPEHLA ALAEIEGVPEP IESDIVKEVL
 EEGGV DKLKN LDHVDTLVHA AAVARDTTIE AGSVAEWHAH LDLNVIVPAE LSRQLLPALR
 AASGCVIYIN SGAGNGPHPG NTIYAASKHA LRGLADAFRK EEANNGIRVS TVSPGPTNTP
 MLQGLMDSQG TNFRPEIYIE PKEIANAIRF VIDAGETTQI TNVDVRPRIE LADRKD

> RXA00268 (1-831, translated) 277 residues
 MARGFFLGAT AGRTTLTGEG LQHMDGHSPV LASTNEGVET YDPSFAYEIA HLVHRGIDRM
 YGPGKGEDVI YYITIYNEPT PQPAEPEGLD VEG LHKGIYL YSRGEGTGHE ANILASGVGM

QWALKKAASIL EADYGVVRANI YSATSWVNLA RDGAARNKAQ LRNPGADAGE AFVTTQLKQT
SGPYVAVSDF STDLPNQIRE WVPGDYTVLG ADGFGFSDTR PAARRFFNID AESIVVAVLN
SLAREGKIDV SVAAQAAEF KLDDPTSVSV DPNAPPEE

> RXA00288 (1-1011, translated) 337 residues
MSAQMDTPDP TMSAVAMLDs IPSDQPDFLI DVEVDRPTPG PHDLLVHIEA VSINPVDTKV
RMRAGKQKHP KILGFDAAGE VVAVGSQVTL FNVGDKVFYA GSNQRPGSNA EYQVVDRLV
GHAPQSLGAH DAAALPLVAL TAWESLFDRL GVTQSTTGTL LVLGGSGGVP SALIQLARAL
TGLKV VATAS RPESQEWVTK LGAHEVIDHS KDLSEQISDV DVFVSSWTTG REVELATLMK
PQSHLV LIDD PVDPNLGAFK QKAIALHWEF MFTRAMFNTP DMGEQ GKILN KIADMVDRGQ
FESVTATVLD GLNAANIMEG HRLVEQGKTS GKIVVRV

> RXA00290 (1-963, translated) 321 residues
MTIDLQRSTQ NLTHEEIFEA HEGGKLSISS TRPLRDMRDL SLAYTPGVAQ VCEAIKEDPE
VARTHTGIGN TVAVISDGTA VLGLGDIGPQ ASLPVMEGKA QLFSSFAGLK AIPVILDVHD
VDALVETIAA IAPSFGAINL EDISAPRCFE VERRLIERLD IPVMHDDQHG TAVVILAALR
NSLKLLDRKI EDLKIVISGA GAAGVAAVDM LTNAGATDIV VLDSRGIIHD SREDLSPVKA
ALAEKTNPRG ISGGINEAFT GADLFIGVSG GNIGEDALKL MAPEPILFTL ANPTPEIDPE
LSQKYGAIVA TGPVLTCLTR S

> RXA00293 (1-912, translated) 304 residues
MKIFVGF GDY PLTTKALKEA GAEIVDSLEK AEGFVFTQTP GTEFPLLPDG VRWVQFPNAG
LNAYFTAGQI DDKRRWSNAS GVGQQVAEA AMALLGLIH MHPTMVRADS WAPSTQIDQQ
TRWLDGATVA IVGAGGIGKH LAAMLKPFGA KSLAVSRTGT PTQDFDATEP ISNLHQVLAD
ADHVVL CVPL TADTYHLIGK AELKAMQSTA ILINVARGEV VDTEALVDAL DAQEISGAGL
DVTDP EPLPD DHPLWGRSNV IITPHVANTL TSM DRMLAPV VAENYRRFLA GEKMLTEVDI
HKGY

> RXA00296 (1-2835, translated) 945 residues
TIKFNRLDPE VFSQHSRAKL RTDMTTAAAY SSDAGIFRRV PAAVAEPENV EQIRDAIAVA
VARGWSV VGR GGGSSVAGNA IGEGLIIDTS RYFNRI LDID PVAQTAVVEP GVVCDALRDA
AAEFGLTYGP DPSTHSRCTI GGMVANNACG SHSVAFGTAA ENLVDVTLML SDGREVTVTK
DGCDDAEINQ KLTDLASKNQ DLISKELGRF PRQVSGYGLH YLAHDMAMAM AGTEGTIGII
TRLTVKLVPT PKVKALAVLA FDTVFDAARA AAKLRLPGVA TIEGMGGDLL AALRSKQGQS
EAGQNLPGNR IGIEAGGWLY CETGSDTLQA AVQAAEEVAT AVDTIDYVVV SEPSEMRELW
RIRESSAGIV TRLADGGEAW PNWEDSAVPP ENLADYLRLD YALMDKFDYQ GIPFGHFGE
CVHVRISFDF STKEGLKKFE AFMNEASTLV ASYGGSLSGE HGDGRARSSF LDRMYS AEMR
ALFEEFKLIF DPQRIFNPGV LVWADPVMQG LRMDPGQAL DITPVHKFSK DKGSMINAVN
RCVGVSA CRS ESDAMCPSFQ ITGDEVHSTR GRARLLSEMF RGE SIADGYR SEEVNEALDL
CLSCAKASE CPVNVD MSTY KAEFLDKHYA GRLRPMHYV MGWLPLLGHV AHKIPLLP TL
IDATMQSALT APVVRKV GGL ADRPLISFAH RSLRKYKPKK NSGETVVLWP DSFNTNLDTG
PAHAAIKTLE ALGYNVVIPD GFVCCGLTWH STGQLSMTKK VLEQTAKVMK PYLDQGLTVV
GLEPSCTV ML QDEATELSDN PDLARLAALT KPFAEVIAPK ITELVESGSL QLTESTALTQ
VHCHERSLGD PQQSALVLEA LGVKDEQIAT GCCGLAGNWG FEKDHAEMSF ALGERELFPK
VRKAEGHVIA DGFSCRTQIE QGTGKQATHL AEVVLSILEQ NNMAQ

> RXA00309 (1-312, translated) 104 residues
MGQCTVALYR EHSYYTATPW RGTWAADGGG VLMTQAIHYI D LLYWLLGEP VEVFGYTNSF
KHGDNIEVED SAVATVRFES GALATISATT AAEPALGAQV QVMG

> RXA00310 (1-435, translated) 145 residues
MSDKIWKVGI ICGGAISRNH IEAVQAIPGA EVSAVCDVDG AKASETA AKY GISPSFTSVD
EILASGV DIV AVCTPHPTHE TVVLA AAAAG VHVLC EKPIA IELDSAQ RMI DACESAGVQL
GVLFQRRFWP AAQKMKKEPS WANAR

> RXA00317 (1-339, translated) 113 residues
VTTPSKKTLL FDL DGT LVDS FPGIRTSFLH TLHEKNWEIP SEERISQVPG PPMWTFQDL
GMTPEQAQDA LQTYLEHYGQ VGWDLSEAFP GMRD LLIPLI YEGFRLCTAT FQG

> RXA00327 (1-384, translated) 128 residues
 MIQAALWIVL FLFADRLSNP LVFVSAIMFA ISFSSPVANF GFDTICEKLD RRVMVAGTGM
 ANMSAYICAM LATQIIGFLL DWNADGHAYT WSNFQVAWLG LGAVWLAGMI GLAVCLLLQR
 RKNIAFR

> RXA00328 (1-492, translated) 164 residues
 VGVERGKVSA KALVVWLTAM CVYIVAIAGR TSFGVAGVHA IDRFDIDASR LAVFTSVQVG
 VYVLAQIPMG MLVDRFDARK LLLAGALILA AGQLILGFTD SYMIAIFARV LISVGDSSAF
 LSMRLLPNW FPMSTPVLQ QLTGAFGFVG QFSRCRFT YSTP

> RXA00329 (1-1224, translated) 408 residues
 MAAITSRTSF GVAGVEAIDR FQVDATRIAV FTSVQVGUYA FAQIPMGILI DKFGPRKLLA
 IGALVMGIGQ LILGFTDSYS IAIARVFIG AGDASIFLSV MRILPFWFPL KHTPIFTQLT
 TCLGQLGQFF SAVPFMALLG AQGWPAFVS LGSVVALIAI AALVAVRDTF DPQPKPVESA
 QEADKPSLRA SLKLIVRNPI TWQGFHIVY LMVWQTVFSM MWGVPLMTLG MGLSATTAGL
 VLSINTLCMV VSAPIIGIIS ARLGYRRDVV AIALSFVQSA VWLVFLASDA PRGLMAIILV
 NIVMGLTTAA SGYGFDTIRE RLDRKILAAG TGLANMGGFL SSMVAAQVMG FLLDHSAGHS
 TYTWVDFRFG FLAILVTWAV GVTGFVVVARL KGGPGRLLA QIRSTKDF

> RXA00340 (1-1146, translated) 382 residues
 VKLVIEADGG SRGNPGVAGS GTVVYSDNKA EVLKEIAYVV GTKATNNVAE YRGLLEGLKA
 ARELGATSVD VYMDSKLVVE QMSGRWKIKH PDMKVLAIEA KEIASEIGSV SYTWIPREKN
 KRADALSNVA MDAAAAGKPV GVVGDASVS SASSVAGSEK EDLNCTETKP TNWNGATTDG
 TRFLLLRHGG TAMSVARLYS GRSNPSELSEL GEKQAAAAAR RLAQTGGIDA IVSSPLTRTM
 QTAEAAAAAL GMKVRVIDDL IETDFGLWDG KSFSEAHEQD PELHTKWLTG SSVAPPGGES
 LQTVNRRVKK ARESLQREYG AANVLVVSHV TPIKAIMRQA LDAGPSFFQK AHLDLASLSI
 AEFYEDGPTC VRLFNDTSHL EA

> RXA00379 (1-207, translated) 69 residues
 MSEIVVAQSI GQQFADVAAS GPLFLGILAA ALAGLVSFAS PCVVPLVPGY ISYLAGVVGG
 EVEYSAHAT

> RXA00381 (1-606, translated) 202 residues
 MTQTIVHLVR HGEVHNPEKI LYGRMPGYRL SSRGRSQAAR TAASFEGHDV TYIAASPLQR
 VQETSEPFIK VTGLELITDE DLLEAGNRFE GLRTKGWRSQ LWNPVVRWPLM YNPTLPWGE
 HYTDILERM AAVRARVAA EGHEAILVTH QLPIVCVQRH ARGQSLSHNP ATRQCDLASV
 TSLVFQDDQI VGVHYNEPAQ EI

> RXA00385 (1-339, translated) 113 residues
 LGGVFALGWT PCLGPTLAAI ISISAGTEGM TAARGVILIV GYCLGLGLPF LLIALGSSKA
 LTGVEWLRKH SRTLQIIGV FLILVGVALL SGSWAIFINW VRQWTVEYGA TLL

> RXA00386 (1-510, translated) 170 residues
 MLPVNQTYAQ FSDTAFVSAY IIVVLALILS LVYYVKQQGI IDARREQTRV SELVGAGGSA
 DVTDLPPDI ADGVLADL AKREETARKL ANMTQSLMWL GVMVHLVSV MRALSASRFP
 FGNLYEYILM VTLFAMIGAV LILQRPQFRV VWPWILTPMA GTWFSTVAPS

> RXA00388 (1-303, translated) 101 residues
 TLDNLAYKTA IWTVPFGLG IILGAIWAEA AWGRFWGWD KETVSFITWV LYAGYLHARA
 TAGWRNTNAA WINILALVTM IFNLFFINMV VSGLHSYAGL N

> RXA00406 (1-975, translated) 325 residues
 DPVEVAADTQ EMIITRIIDN ASVQAASVLR RPVSSARAMA QVRPVTGGRG ASVFGLPGRY
 AAWEAALANG TAVRELDHFD TFLAAEYSHG GDNIPPILAA AQQAGKGGKD LIRGIATGYE
 IQVNLVRGMC LHEHKIDHVA HLGPSAAAGI GTLLDLVDVT IYQAIGQALH TTTATRQSRK
 GAISWKAFPA PAFAGKMSIE AVDRAMRGE APSPIEWEGD GVIAWLLSGL DHIYTIPLPA
 EGEAKRAILD TYTKEHSAEY QSQAPIDLAR SMGEKLAAQG LDLRDVDSIV LHTSHHTHYV
 IGTGSNDPQK FDPDASRETL DHSIM

> RXA00427 (1-432, translated) 144 residues

LLPGIASLFN GALISAYAME RIGVPDYRLF IRGDEVEYHR RLVRSGLPFG TCLTTAYLHP
DGSDEFKPII GGRMHTQYPD NDFKRFFTYR NRGYLMSQPG MRKLLPQEYA RFAWFFLVQK
RDVKGFREWL RLHKLGRDEK FNRP

> RXA00483 (1-1464, translated) 488 residues
VLVTGATGYI GGRLITELLA AGFQVRATSR KKTSLQRFDW YEDVEAVEAD LTDATELDTL
FKDQDVVYYL VHSMMGGKNVD FEEQEQRAT E NVIQAADQAG IKQIVYLSGL HPRNRKIEEL
SKHMRSREKV AQILLAGQTP ALILRAATII GSGSASFEII RHLTERLPRM IAPQWITNQI
EPLAIRDVLH YLISAADLKD PVNRSCDIGC GKSSEFADLL RIYADVRGLK RHNVSVPNLN
PMDKLSGLWI SLVTPVPFQL SFPLAQSMAS DAVTEEHSIK DIISDPPDGF IEYREAVELA
LAAEFDRGVP TSWDRSWTVQ QPWAGQPTDP EWAGKAVYED VRTEDTDLRA AQVWPIIEGL
GGVNGWYSAP LLWRLRGIAD RLIGGPGLGG RRDPRHLKLG DRIDWWRVTE IDPPHRLVLT
AEMKVDGGAW LILEVADKEN GGCTYTQRAI FEPKGLPGYL YWWVVSFPFA IIFPYMRSNI
LKAARKLT

> RXA00511 (1-513, translated) 171 residues
ELRKNTLVGT VMSNLGLKIA MDEAGITLRT TKVGDRYVLE DLNAGGFSLG GEQSGHIVLP
DHGTTGDGTL TGLSIMARMA ETGKSLGELA QAMTVLPQVL INVPVSDKST IVSHPSVVAA
IAEAEAEELGA TGRVLLRASG TEELFRVMVE AGDKEQARRI AGRLAAVVAE V

> RXA00512 (1-618, translated) 206 residues
MSSATTTDVR KGLYGVIADY TAVSKVMPET NSLTYRGYAV EDLVENCSEF EVFYLLWHGE
LPTAQQLAEF NERGRSYRSL DAGLISLIHS LPKEAHPMDV MRTAVSYMGT KDSEYFTTDS
EHIRKVGHTL LAQLPMVLAM DIRRRKGLDI IAPDSSKSA ENLLSMVFGT GPESPASNPA
DVRDFEKSLI LYAEHSFNAS TFTARV

> RXA00514 (1-408, translated) 136 residues
HERSYAPERA LRRETIELWN KISTVEDPEW TRRYHSVDP EKAFGARAVI TFKDGTVVED
ELAVANAHPL GARPFAREQY IQKFRTLAEG VVSEKEQDRF LDAAQRTHEL EDLSELNIEL
DADILAKAPV IPEGLF

> RXA00517 (1-1041, translated) 347 residues
MPEVTVNAQQ LTVLCTDILT KTGVPAAADAH LVGDSLVQAD LWGHPSHGVL RLPWYVRR LH
SGAMTTHAHV EVLNDLGAVL ALDGHNGIGQ VLADHARKEA VTRAMMFGIG AVSVRNSNHF
GTAMYYTRKA AAQGCVSILT TNASPAMAPW GGREKRIGTN PWSIAAPFGE TATVVDIANT
AVARGKIYHA RQTNMPIPET WAITSEGAPT TDPAEAINGV VLPMAHGKGY AISFMMDVLS
GVLTGSQHST KVHGPYDPTP PGGAGHLFIA LDVAAFRDPQ DFDDALSDLV GEVKSTPKAQ
NTEEIFYPGE SEDRAHRKNS AHGISLPEKT WMELQELAIE NHVVTHR

> RXA00518 (1-297, translated) 99 residues
VLPVLAARHD GEKWVAMYEN MRDAMDARTG IKPNLDFPAG PAYHLLGFPV DFFTPLFVIA
RVAGWTAHIV EQYENNSLIR PLSEYNAGEQ REVAPIEK

> RXA00521 (1-1059, translated) 353 residues
LDAADEVQIK HIAADGTETI LKDSLKLLEG EVLDGTVLSA KALDAFLLEQ VARAKAEGIL
FSAHLKATMM KVSDPIIFGH VVRAYFADV AQYGEQLLAA GLNGENGLAA ILSGLES LDN
GEEIKAAFEK GLEDGPDLM VNSARGITNL HVPSDVIVDA SMPAMIRTSG HMWNKDDQEQ
DTLAIIPDSS YAGVYQTVIE DCRKNGAFDP TTMGTVPNVG LMAQKAEY G SHDKTFRIEA
DGVVQVSSN GDVLIEHDVE ANDIWRACQV KDAPIQDWVK LAVTRSRLSG MPAVFWLDPE
RAHDRNLASL VEKYLADHDT EGLDIQILYP VEATQLSIDR IRRGEDTISV TGN

> RXA00606 (1-1749, translated) 583 residues
MASVPPLLGF VSKEGMITAF MDAPIGNSYV VLLLVGAAIG AVLTFTYS AK LVLGAFVDGP
RDMSHVKEAP VSLWLPALP GLMSLPLVLV LSLFDAPVSA AATSAAGEAA HMHLALWHGI
NTPLLISLGV LVAGILGVLF RKELWKIAET SPFPATGND ILSMLVYRAN LLGKFFGRMA
DSMSPRRHLV SLIVLLWALA AFATIHPSVQ LAPKQPGIDR WIDLIPLAI ALSVFGLLTT
RNRLSAAVLV GTVGVGVSFQ MLLLGPADVA LTQFLVEGLV VVIIMMVVRH QPANFKRIKP
SRRRSTVLVA VLAFAAFMA VWGLLGRHER SELAMWYLNQ GPEITSGANV VNTILVEFRA
LDTLGELSVL GMAAVVIGAM VASMPRHFFA KGTHPRPFGQ SQLNSIPLRM LLKVLVPALC
FLSFMVFMRG HNDPGGGFIA ALIAGGALML LYLSKAKDGR IFRPNVPFIL TGAGILMAVF

SGVLGLTHGS FLYAIHFNFV GQHWTTSMIF DLGVYLAVLG MVSMaingLG GYLrPGTDNA
DLDYARRSGP LPATPTVEPE PEGDEDWPEP INPAGDNKEE ANR

> RXA00608 (1-765, translated) 255 residues
MAMDVLLPIF VAVPLAASAI AVLLPWRLIR DILHIIVPFA GIFAGIWLFA HTAEHGPIAH
NVGLYVGGVA IPFAADTFSA IMLITTSIVA VAANWFATIV GETRARFYPA LTLMLITGVN
GALLTADLFN FFVFIEVMLL PSYGLIAMTG TWARLASGRI FVLVNLSAST LLVAGVGIVY
GVIGSVNIAA LQDVVEGNPL VASAMGIVVI AIAVKAGVFP VHTWLPRTYP GTSAAVMGLF
SGLHTKVAVY MLYRI

> RXA00635 (1-921, translated) 307 residues
GTDFPYSDFL PKDNVAQVDI NGAHIGRRTT VKYPVTGDVA ATIENILPHV KEKTDRSFLD
RMLKAHERKL SSVVETYTHN VEKHVPIHPE YVASILNELA DKDAVFTVDT GMCNVWHARY
IENPEGTRDF VGSFRHGTMA NALPHAIGAQ SVDRNRQVIA MCGDGGGLGML LGELLTVKLH
QLPLKAVVFN NSSLGMVKLE MLVEGQPEFG TDHEEVNFAE IAAAAGIKSV RITDPKKVRE
QLAEALAYPG PVLIDIVTDP NALSIPPTIT WEQVMGFSKA ATRTVFGGVV GAMIDLARSN
IRNIPT

> RXA00679 (1-1266, translated) 422 residues
MNTSAETGIL IIGANQSGVQ LAISLRATGF TESITLLGEE DHRPYQRPAL SKEFLQDKID
KERLIFRSNE YWEENNIRLV KGVRIERIEK NDDGSGVAYG AGQEFAFRRL ALAVGARPRH
LDLPGATLEG VTYLRNADDA LALKAMIGSV TDAVVVGGGF IGLEAACSLH DLGKNVTVLE
YGPRLIGRAV GEETAFFLE QHRSRGVNIV LDARMKQFVG KDGKLSGIEL EDGTVIPAQL
VIVGIGVIPN TELA AVLGLD INNGIVVDKH AVASDGTIA IGDVANIPNP IPGSPADERI
RLESVNNAIE HAKIAAYSLV GQPEAYAGIP WFWSNQGDLK LQIAGLTLGY DSTVIRQDPE
KKKFSVLYYR GDNIIAADCV NAPLDFMAVR SALSRNQNP ADLAADISQP LKKLAVDLEV
TR

> RXA00680 (1-318, translated) 106 residues
MSTIHFIHDA GKTRTIEATV GDSVMEATVR NGVPGIVAEC GGSLSATCH VFVDPAQYDA
LPPMEEMEDE MLWGAAVDRE DCSRLSCQIK VTEGMDLSLT TPETQV

> RXA00682 (1-1899, translated) 633 residues
MANKSFPKPS DLPVPKGAEG WEDLYPYLV FQDKLMDQEN EKFWFCDSQH WPTVFKPFET
IGGEFAVKCL GQYNARHLMI PNANGIEFRV HLGLYMSPI PVPEDQIAER VPMFQERITH
YFQNWEPMLA NWKERVLTGI NELESLEFKP LPDYVPIDDI VSGKAKDGTE VLMENFDRLI
QLAYQNWQYH FEFLNLGYIA YLDFNFCKE VFPDIPDQSI SMMVQGVDM E LFRPDDELKI
LAQLAVDLGL QTHFANPDDP QATLAAIAKA EGGATWIARW EEAQDPWFNF TVGNGFYGHD
KYWIEHLEP LGYIADYIRR LDEGQITSRV KDELIAEKER VVEEYRDL D GEQLAQF DAK
CGLAATAYPY VENHNFYIEH WTMSVFWRKV RELSRTLQGY GFWENEDDML YLNRTEVRDV
LFDLATAWGV GAPGGPIGTI IWPEEIERRK AIVTALKTAR PAPALNTPPE SITEPTFTRML
WGITTEQVQS WLGNDDEAE GTLKGMAASP GVVEGYARVI LSADDLSEIQ QDEILVAPVT
APSWGPIFGK IKATVTDIGG MMSHAAIVCR EYGLPAVTGT GAASTTIKTG DYLVKVDGTHG
KVVIVDPDAP RIEGPGAHSH AHSVAAHGVD THA

> RXA00683 (1-1092, translated) 364 residues
MTNSLNIPFV QRFDEGLDPV LEVLGGKGAS LVTMTDAGMP VPPGFVVTTA SFDEFIREAG
VAEHIDKFLN DLDAEDVKEV DRVSAIIRDE LCSLDVPENA RFAVHQAYRD LMERC GG DVP
VAVRSSATAE DLPDASFAGQ QDTYLVQVGL SAVTEHIRKC WASLFTSRAI IYRLKNNIPN
EGLSMAVVVQ KMNRSRVAGV AITMNPNSNGD RSKITIDSSW GVGEMVVS GE VTPDNILLDK
ITLQVVSEHI GSKHAELIPD ATSGSLVEKP VDEERANRRS LTDEEMLAVA QMAKRAEKHY
KCPQDIEWAL DADLPDGENL LLLQSRPETI HSNGVKKETP TPQAAKTIGT FDFSSITVAM
TGTK

> RXA00686 (1-804, translated) 268 residues
MAGGNREPGR TVTSKVIAVL GAFEHTMRPL GVTEIAELAD LPPSTTHRLV SELTEGGLLS
KKSDGRYQLG LRIWELAQNT GRQLRDTARP FIQELYSLTS ETAQLVVRDK DEALLIDRAY
GTTKIPRSAR VGGRLPLNST AVGKILLAFD EPWVKQSYLK LPLNASTPKT IVNPDVLAAQ
LKQIHSQGFA ITHDEQRIGG ASIAVPVWHT GKLGAALGLV VPTAQANLE RYLPILQATS
QRITKATALI PLDTLLASHK NAERKGD

> RXA00700 (1-804, translated) 268 residues
 MINAITLKPK TFLTLSFLAV LSIVIFFWPL IVNPESFLSD KAQAPLYIAI VIPLVLAAVI
 AEISENGFDV KAVAMLGVLV AMVAVVRPFG AGAAGFEAVF FVLILGGRAF GPGFGFILGN
 TGLFASALLT AGIGPWLPHY MLAAAWVSFG AGLLPQVRGK KEMLIIVLYA IVSSLGYGTM
 MNMSFWPYAI GVTSGLSFTP GAPVLENLHT FMLFCLTSM GWDLGRAFFT SVLLLLTAKP
 VLGALRRASR RAAFGVERDF GEAGVPRV

> RXA00703 (1-2286, translated) 762 residues
 MTTPTTEISN VNPTANEFDD PDVGRRITSA AGVPGVLHAL QHAVPNRALL PLLTMNKPGG
 IDCPGCWPE PSTANLGVVE FCENGAKAVA EETTPDRAGK EFWAEHSIYD LREKTDHWLG
 KRGRITEPMF YDRSSGDDHY RPISWDRAFA IIASKLREIE PDEAVFYTSR RAPNEPAYML
 QLLARRLGTM NLPDCGNMCH ESTGTALGET LGLGKGSVVM EDFYNTDLLI SVGQNPSTNH
 PRALTAFKEL KENGKKILAL NMPETGLMK FREPQSVKGA LSISDKLADE YLQIRLDGDR
 AFFQALNKEL IRRDALDHAF LDKFCSCGVDE TIEHLKSLDD EVLLKGCGLT AAEINKAADM
 VEKSDTVVVS WTLGVTQHKH AVYTIREMVN FLLLTGNIGK PGAGTAPLRG HSNVQGDRTM
 GIWEKMPFAF LAALENEFGF DVPRKHGFDV VNSLRAMREG KTKFFLSLGG NLVRVSSDTS
 VVEKGMESNE LTVHLSTKPN GSQAWPGEQS LILPVIARTD KDVQKSGVQR VTVEDSAGAV
 HASTGKRTAN KDLNLKSECD IIGTIGKQTF GDAFWQPMID NYDVVRDHIE ATIPGFHDFN
 RRIDNPGGFL LPNGPRERIF NTSNGKAQLT VNETNVIELP KDYLLMNTVR SHDQYNSTIY
 GLDDRYRGVR NGRRVVFVNP QDCKQRGLKD GDIVDIVSVF DDGERRAPNF RVVEYDTARD
 CVTTYFPEAN VLVPLDSVAE KSNTPVSKSV VVRLEATGRT AS

> RXA00705 (1-885, translated) 295 residues
 PRVVSTDEQV FVNTRPDTVA VEEPLEIRVN GTALTMTMRT PGHDIELVHG LLLSEGLITD
 ASEVFTARYC AGAVGPDNQN TYNVLELDVI PKDNPARDPV QNPSHNPEGS QHEALHIPTF
 QPVRELNLVA AQRNVLTTSA CGVCGTTSIE QLMNKKGWPI TPITPDPRMI VSLPDKLKSK
 QKIFDKTGGV HAAGLATLDG EMLIREDVG RHNAADKVIQ NMLMAGKLPL ENTILVMSSR
 ASFELVQKAA MAGISGVIAV GAATSLAIEA AQDSGIFLAG FVRGNKFNHY AGELG

> RXA00782 (1-882, translated) 294 residues
 MSIFLNSDSR IIIQGITGSE GSEHARRILA SGAKLVGGTN PRKAGQTILI NDTPLPVFGT
 VKEAMEETGA DVTVIFVPPA FAKAAIIEAI DAHIPLCVII TEGIPVRDAS EAWAYAKKVG
 HTRIIGPNCP GIITPGESLA GITPANIAGS GPIGLISKSG TLTYQMMYEL SDIGISTAIG
 IGGDPIIGTT HIDALEAFEA DPETKAIVMI GEIGGDAEER AADFISKHVT KPVVGYVAGF
 TAPEGKTMGH AGAIVTGSEG TARAKKHALE AVGVVRVGTTP SETAKLMREV VAAL

> RXA00783 (1-1272, translated) 424 residues
 LKHLLLRDEF VKDAEGSKHG PEMELAVDLF EYQARDLFET HGVPVLKGIV ASTPEAARKA
 AEEIGGLTVV KAQVKVGGRG KAGGVRVAPT SAQAFDAADA ILGMDIKGHT VNQVMVAQGA
 DIAEEYFSI LLDRANRSYL AMCSVEGGME IEILAKEKPE ALAKVEVDPL TGIDEDKARE
 IVTAAGFETE VAEKVIPVLI KIWQVYEEE ATLVEVNPLV LTDDGDVIAL DGKITLDDNA
 DFRHDNRGAL AESAGGLDIL ELKAKKNDLN YVKLDGSGVI IGNGAGLVMS TLDIVAAAGE
 RHGGQRPAHF LDIGGGASAE SMAAGLDVIL GDSQVRSVFV NVFGGITACD VVAKGIVGAL
 DVLGDQATKP LVVRLDGNNV VEGRRILAEY NHPLVTVVEG MDAAADHAAH LANLAQHGOQF
 ATAN

> RXA00794 (1-1005, translated) 335 residues
 MNLKNPETPD RNLAMELVRV TEAALASGR WVGRGMKNEG DGAAVDAMRQ LINSVTMKGV
 VVIGEKEKDE APMLYNGEEV GTGFGPEVDI AVDPVDGTTL MAEGRPNAS ILAAERGTM
 YDPSSVFYMK KIAVGPEAAG KIDIEAPVAH NINAVAKSKG INPSDVTVVV LDRPRHIELI
 ADIRRAGAKV RLISDGDVAG AVAAAQDSNS VDIMMGTGGT PEGIIITACAM KCMGGEIQGI
 LAPMNDFERQ KAHDAGLVLD QVLHTNDLVS SDNCYFVATG VTNGDMLRGV SYRANGATTR
 SLVMRAKSGT IRHIESVHQL SKLQEYSVVD YTTAT

> RXA00799 (1-1584, translated) 528 residues
 LQFRDLGDG VLAPYEDWRL TPAERAADLV KRMNVEEKAG LMIIGSHYPG YSPLAPESEG
 KDAEKCEPLL NPVDMWRDN PITGVPFTEP VLATSSTENA INLRNQRYLI VRDNLPARGL
 ATWTNAVQEV AERSRLGIPV AFASNPRNHV ALVAQFGVNE SAGVFSEWPG ELGLAALRDA
 ELMETFGTEA AKEWRAGGVH KLYGYMADLA SEPRWSRFNG TFGEDPELIS DYIAAVVRGL

QGPESLKNV STTIKHFP GG GVRLDGHD PH FHWGQTNEYP TEDALGKYHL PPFQAAIDAG
 CASIMPYYAR PMNNSANQLD QQLWQNPTTQ FEEVAFAYNR TFIQDLLRDA MGHGRGVNSD
 SGVIDAMMWG VEELSEPERF AA AVRAGTDI FSDMANPRRL LEAVAEGHLD ESELNQPVQR
 LLEEIFQLGL FENPYVSEDE AEKII GAPEV SALGNKAQLD SVTLLRNNPI RAATGSCSKP
 EDLPIGYWPY QDRRGSTTAG SSHSRRTPRG NLGVFRVRSR SCNRVGSP

> RXA00800 (1-1104, translated) 368 residues

MSTVVP GIVA LSKGAPVEKV NVVVPDPGAN DVI VKI QACG VCHTDLAYRD GDISDEFPYL
 LGHEAAGIVE EVGESVTHVE VGDFVILNWR AVCGE CRACK KGEPKYCFNT HNASKKMTLE
 DGTELSPALG IGAFLEKTLV HEGQCTKVNP EEDPAAAGLL GCGIMAGLGA AVNTGDIKRG
 ESVAVFGLGG VGMAAIAGAK IAGASKIIAV DIDEKKLEWA KEFGATH TIN SSGLGGEGDA
 SEVVAKVREL TDGFGTDVSI DAVGIMPTWQ QAFYSRDHAG RMVMVGVPNL TSRVDVPAID
 FYGRGGSVRP AWYGDCLPER DFPTYVDLHL QGRFPLDKFV SERIGLDDVE EAFNTMKAGD
 VLRSVVEI

> RXA00825 (1-933, translated) 311 residues

MRTVVTGGAG FIGSHLVDLL IKEGHEVVVI DNLSRGRLEN LSDAEATGKL TFVEADLLDV
 DFNEFLGTHK PEVIFHLAAQ IDVRHSVVDV LHDAETNLS TIRIADAARQ HGVRKVVFST
 SGGSIYGEP S EFPVDETVPV DPHSPYAASK VSGEIIYLN TF RHLYGLDCSH IAPANVYGPR
 QDPHGAEAGV AIFALRLLGG LDTKVFGDGG NTRDYVYVGD VVRAFYLASG EIGGGERFNI
 GTSVETSDRQ LHTLVATAAG SKDDPEYAPA RLGDVPR SAL SFGKAKEVLG WEPEVNIEQG
 VAKTVEYFRT H

> RXA00871 (1-864, translated) 288 residues

MRWFHKKGEL ARDGWQSVVD ATTPGWEYTG IRI AELGSGE SLELNDTGVE RIFIPLQGSF
 DVAHHGQVTH LHGRKSVFDG PTDVLYLPTG QTATLSGQGR VAVAEAPTQE PKEWKYIAPA
 ETPVELRGAG RSSRQVHNFG TPEALDAARL IVCEVITPGE NWSSYP PHKH DEHIPGHESK
 LEEIYFESA PSRVGGRAEA AEGA FGMFST YSSPAGEIDI NAMVYSGDIA LVPFGYHGPA
 VAAPGYDLYY LNMAGPDPE RIWLINDDPA HAWVRDWTG QAFDDR LP

> RXA00872 (1-522, translated) 174 residues

MTNLTSTHEV LAIGRLGVDI YPLQSGVGLA DVQSFGKYL GSAANVSVAA ARHGHSALL
 SRVGNDPFGE YLLAELERLG VDNQYVATDQ TFKTPVTFCE IFPPDDFPLY FYREPKAPDL
 NIESADVSLD DVREADILWF TLTGFSEEPS RGTHREILT RANRRHTIFD LDYR

> RXA00879 (1-2100, translated) 700 residues

LNELADLYGV ATSYTDYKGA HIEVSDDTLV KILRALGVNL DTSNLPND DA IQRQIALFHD
 REFTRPLPPS VVAVEGDEL V FPVHVHDGSP ADVHIELEDG TQRDVSQVEN WTAPREIDGI
 RWGEASF KIP GDLPLGWHL HLKSNSERSA CGLIITPARL STADKYLDSP RSGVMAQIYS
 VRSTLSWGMG DFNDLGNLAS VVAQDGADFL LINPMHAAEP LPPTEDSPYL PTTTRRFINPI
 YIRVEDIPEF NQLEIDL RDD IAEMAAEFRE RNLTSDI IER NDVYAAKLQV LRAIFEMPRS
 SEREANFVSF VQREGQGLID FATWCADRET AQSES VHGTE PDRDEL TMFY MWLQWL CDEQ
 LAAAQKRAVD AGMSIGIMAD LAVGVHPGGA DAQNLSHVLA PDASVGAPPD GYNQQGQDWS
 QPPWHPVRLA EEGYIPWRNL LRTVLRHSGG IRVDHVLGLF RLFVMPRMQS PATGTYIRFD
 HNALVGILAL EAELAGAVVI GEDLGTFFEPW VQDALAQ RGI MGTSILWFEH SPSQPGPRRQ
 EEYRPLALTT VTTHDL PPTA GYLEGEHIAL RERLGV LNTD PAELAEDLQ WQAEILDVAA
 SANALPAREY VGLERDQ RGE LAELLEGLHT FVAKTPSALT CVCLVDMVGE KRAQNQPGTT
 RDMYPNWCIP LCDSEGN SVL IESLRENELY HRVAKASKRD

> RXA00909 (1-855, translated) 285 residues

VLILFLALTA AAVVAPILIR TLGRPAFGLL ALVPGIGFFW VLSEFIKGT F KDGGELL LH Y
 AWMPSAHLNI DFRMDSL AAL FSLIVLG VGA LVLLYCWGYF DSNAGRLSAF GAELVAFAMA
 MFGLVISDNI LLMYVFW EIT SVLSFLLVGY YGERASSRRS AGQALMVTTL GGLAMLVGII
 LMGTQTGVWR FSEIPAYSSS WADVPI SAA AALILAGALS KSAIAPTHFW LPGAMAAPT P
 VSAYLHSAAM VKAGIYLVAR LSPDLNVVGS WYLI IIP LGM LTMLM

> RXA00910 (1-1257, translated) 419 residues

YVGFEVLLVA SYVLLTLGAS PARVRSVG VY VMVSMAS SMV FLFGLAMVYA SVGT LNMAHV
 GLRMEDVPSG TRSAIFAVLL VAFGIKAAVF PLDSWLPDSY PTAPSLVTAV FAGLLTKVGV
 YSIIRARSII FTDGSLDTML MWVALATMLI GILGAMAQND IKRLLSFTLV SHIGYMI FGV

ALGSAQGLSG AIFYAIHHIL VQTSFLVVG LVERQAGSSS LRRLGSLAYI SPLLAIFYFI
PAINLGGIPP FSGFLGKIML IEAGAEDGSW LAWVLIAGAV VTSLTLYTM VLVWSKAFWR
DRKDAPDGAT ALARPAPLVD VQDEVAVKDR NDVGRMPWGM VFSTALLVSA SLAVSVLAGP
LSSITGRAAE SAQDVNIYRA AVLGPNYLDP SRTLEMERYD ANRDDINHRV DTNGTEDQP

> RXA00913 (1-2118, translated) 706 residues
IISVVGIGTR EALLAGLALT VAHSLFKATL FMTVGAIDHT TGTRDIRKLS GLWRKQPILF
AVAAVSAASM AGIPPLFGFI AKETALDTVL NEQMLHGMPG RLMLAGIVLG SIFTMAYSCY
FLYEAFATKH SKFPEANGVS PAVEAMHPVK FKLWIAPVIL AILTUVFGVF PKPVSEAVT
HLDNVTPSLD DVHTKLALWH GLNLPLLLSV VIIISGFIIF WERDTVERLR PNTAAFGSAD
TAYDAILDAL RVLSHRLTAS TQRGSLTLNV GVIFFVLTIV PLIALITGEQ SDVRMELWDS
PIQGFIAAII IVVAIVATTM DNRLSALILV GVTGYGIAVI FALHGAPDLA LTQVLVETIV
MVVFMVLVRK MPTEVAWKAE PKQSRVRAWL AGATGLSVVI VTIFAMNART TEPISVYMQD
LAYEIGHGAN TVNVLLVDLR GFDTFGEISV LVIAATGAS LVYRNRFRK DSRRTPLATT
GRRWLAAVD TERAQNRSLM VDVATRILFP AMIMLSVYFF FAGHNAPGGG FAGGLVASLA
FALRYLAGGR EELEALPID AGRILGTGLF VSATAVLWPM VLLGEPPLTS HIWDLTLPLI
GEIHASALL FDLGVYLIVI GLTMHILNSL GGQLDRDEEM RKQRARDRAR RLARNQRREA
ATVGARRSNE KSTRQMPTIR PPGADTESVE QNGENQTSIS TKRLKQ

> RXA00945 (1-972, translated) 324 residues
MLERLKRLLD LIVLIVLAVI VAIIPVRGV AADWFDVAVK IAIALLFFLY GARLSTQEAL
NGLKHWRLHL TILAITFGIF PLIGIGLEPM TAFVSEDIYR GILFTLVPS TVQSSVAFTS
IAKGNVAGAI VSASLSNLAG VFLTPLLML IMSAGGGVHV DSQVFLDIAI QLLLPFILGQ
VCRWVKNFA ANKATKIVDR GSIAMVVYSA FSAGMVAGIW STVSVLEIIY LIVFAILLVM
AMLWFTLFMA TRLGFNRAVS IAIQFCGTTK SLATGLPMAA VIFGGANIGL LILPLMIFHQ
VQLMICAWLA ARYGRDAQEQ KANA

> RXA00965 (1-723, translated) 241 residues
MTTFHDLPLE ERLTLARLT SHYSRQLSLV DNAEFGESL LEGWTRSHLI AHVAYNAIAL
CNLMHWANTG EETPMYVSPE ARNEEIIYGS TLNPDALRNL HEHSVARLDV AWRETSADAW
SHEVLTAQGR TVPASETLWM RSREVWIHAV DLGAVATFGD IPEVILRTLA AEITQKWTSS
GAGEGLVLLD EPSSTRYPAA PGQDEVVVSF SLAGIVRYAA GRGSDGVTSS TGEVPEPPRW
L

> RXA00999 (1-1437, translated) 479 residues
MTNGDNLAQI GVVGLAVMGS NLARNFARNG NTVAVYNRST DKTDKLIADH GSEGNFIPSA
TVEEFVASLE KPRRAIIMVQ AGNATDAVIN QLADAMDEGD IIIDGGNLY TDTIRREKEI
SARGLHFVGA GISGGEERAL NGPSIMPGGP AKSYESLGPL LESIAANVDG TPCVTHIGPD
GAGHFVKMVH NGIEYADMVQ IGEAYHLLRY AAGMQPAEIA EVFKEWNAGD LDSYLIEITA
EVLSQVDAET GKPLIDVID AAGQKGTGRW TVKAALDLGI ATTGIGEAVF ARALSGATSQ
RAAAQGNLPA GVLTDLALG VDKAQFVEDV RRALYASKLV AYAQGFDEIK AGSDENNWDV
DPRDLATIWR GGCIIRAKFL NRIVEAYDAN AELESLLLD YFKSELGDLI DSWRRVIVTA
TQLGLPIPVF ASSLSYYDSL RAERLPAALI QGQRDFFGAH TYKRIDKDG FHTWESGDR

> RXA01015 (1-342, translated) 114 residues
MRVYLGADHA GFETKNAIAE HLKAHGHEVI DCGAHTYDAE DDYPAFCIEA ASRTVNDPGS
LGIVLGGSGN GEQIAANKVK GARCALAWSV ETARLAREHN NANLIGIGGR MHSE

> RXA01025 (1-915, translated) 305 residues
VVSVSVMGAG SWGTTLAKVF SDAGNAVTLW ARREELASTI RDSHENRDYL PGITLPESLQ
VTSSATEALE GAAIVVLAIP SQALRGNLAE WKETIPQDAT LVSLAKGIEK GTHLRMSEVI
AEVTEADPSR IAVLSGPNLA REIAEGQPA TVIACPENR AKLVQAQVAA PYFRPYNTD
VVGTEIGGAC KNVIALACGI SHGYGLGENT NASLITRGLA EIARLGATLG ADAKTFSGLA
GMGDLVATCS SPLSRNRSFG ERLGQGESLE KAREATNGQV AEGVISSQSI FDLATKLGVE
MPITQ

> RXA01048 (1-288, translated) 96 residues
RSDLPNQINN VLAFFGIFAG ALAAKAKKIT PEMKLAAQRQ SQTSQRLTSR SAASCLPPWI
PALPQQSRQL SRPSPKRKTL KNLLIDASLP VEAPIF

> RXA01049 (1-1011, translated) 337 residues
VVKTEFEKEF NKAKYVMTIG EYVYFKLAGI TGMATSIAAW SGILDAHTGE LDLTILEHIG
VDPALFGEIR NPDEPATDAK VVDKKWKHLE EIPWFHAIPD GWPSNIGPGA VDSKTVAVAA
ATSGAMRVIL PSVPEQIPSG LWCYRVSRDQ CIVGGALNDV GRAVTWLERT IIKPENLDEV
LIREPLEGTP AVLPFFSGER SIGWAASAQA TITNIQEQTG PEHLWRGVFE ALALSYQRVW
EHMGKAGAAP ERVIASGRVS TDHPEFLAML SDALDTPVIP LEMKRATLRG TALIVLEQLE
PGGTRATPPF GTTHQPRFAH HYSKARELFD ALYLKLV

> RXA01050 (1-474, translated) 158 residues
MGSIPTMSIP FDDSRGPYVL AMDIGSTASR GGLYDASGCP IKGTKQRESH EFTTGEGVST
IDADQVVSEI TSVINGILNA ADHNNIKDQI AVALDSFAS SLILVDGEGN ALTPCITYAD
SRSAQYVEQL RAEIDEKAYH GRTGVCLHTS YHPSRLLW

> RXA01077 (1-1371, translated) 457 residues
MTESQDLAAF VEAAKLNDAS PEAVEQLKIR VLDTVGVAIG ALDAEPIVAI RGLLEDLGGT
EQSTLIGGGK TSPERAFFN SALSRYLDFM DAYLAKGETN HPSDNFGAVL AAAESVGASG
KDLLTAFAVA YQVHTRLSDV APVRAKGFHD TTQGAFAAGA SAAKALGLPA DQIANALAI
GTANVALRVT RTGNLSHWKG LAYPHVSKEG TWAALLASRG ITGPEEVFEG NKGFKESVSG
PFEIDWSKED LESVKRTIHK KHNAEIHSQS ALDAAQEIRA QEGFNVDNIE KIHLLTFDVA
YSIIGGGGEG DKQLIRTKEE ADHSLPWMLA VVLLDGQLNP EQYEPSRIVA DDVQTLMKKI
EITPSDEFSD RFPDHMPADL EVTLNDGSVF KASQDSYLG F HDNPLDWDNA RKKFDALVTP
FTGEELREEI ATIIHELDSR QVSELTEALA KVSTTRS

> RXA01089 (1-750, translated) 250 residues
LSRFAANLSL TFTELDLFLDR FDAASKHAFS AVEFYQPYDF DVQEIQRAD SAGLPIELFN
APPGDTFGLA ALASPEDFQQ SIEQAITYAT VLKPKKMHVM AGIADVTSET TARYVENIRW
AAQQLDKLDV VVIEPINHY SVPGYFLHTL EQAYWLIDSI AHPNVKILFD TFHLQQIHGN
LTRRLREVHG AGLLGHVQVA SVPDRHEPGT GEVNAAIFYQ LLSELGYDGV IAGEYHPAGE
TTAGLGWLEL

> RXA01093 (1-1431, translated) 477 residues
MGVDRRTKIV CTLGPAVASA DGILRLVEDG MDVARLNFSH GDHPDHEQNY KWVREAAEKT
GRAVGILADL QGPKIRLGRF TDGATVWENG ETIRITVDDV EGTHDRVSTT YKNLAKDAKP
GDRLLVDDGK VGLVCVSVEG NDVICEVVEG GPVSNNKGVS LPGMDISVPA LSEKDIRDLR
FALKLGVDFI ALSFVRSPAD AELVHKIMDE EGRRPVPIAK LEKPEAVTSL EPIVLAFDAV
MVARGDLGVE VPLEEVPLVQ KRAIQIAREN AKPVIVATQM LDSMIENSRP TRAEASDVAN
AVLDGADAVM LSGETSVGKD PHNVVRTMSR IVRFAETDGR VPDLTHTIPT KRGVISYSAR
DIAERLNARA LVAFTTSGDT AKRVARLHSH LPLLVFTPNE AVRSELALTW GATTEFLCPPV
SDTDDMMREV DRALLAMPEY NKGDMMVVVA GSPPGVTGNT NMIHVHLLGD DTRIAKL

> RXA01099 (1-825, translated) 275 residues
MDARGMLAIA EAVVDDAEAL FMQGFGAAPA HMKSPGDFAT EVDMAIESHM RSMLNMMTGI
AVIGEEGGGA TSGTRWVIDP IDGTANFAAS NPMSAILVSL LVDDQPVLLGI TSMPMLGKRL
TAFEGSPLMI NGEPEQPLQE QSSLVSHIGF SSMASPRNTA FPVELRRDLL TELTESYLRP
RITGSVGVDL AFTAQGIFGA CVSFSPHVWD NSAGVMLMRA AGAQVTDTEG HPWAPGRGVV
AGTKRAHDVL LSKIEKVRLM HADAGNDQSL NEEYK

> RXA01111 (1-447, translated) 149 residues
MTSTIEHSYQ VWPGHAYPLG STYDGAGTNE ALFSDVAERV ELCLLDADNN ETRIPLEERD
AHIWHCYLPG VQPGQRYGFR VHGPWNPDG KRCDANKLLV DPYARAFDGD FDGHPSLFSY
DITNPNDPNG RNTEDSIDHT MKSVVVNPF

> RXA01130 (1-303, translated) 101 residues
VGALTGLERV EKITRINGRG LDLRAEGLNL FLQYTDAPGA LGTVGTLKGA AGINIEAAAL
TQAEKGDGAV LILRVESAVS EELEAEINAE LGATSFQVDL D

> RXA01133 (1-549, translated) 183 residues
VSQNGRPVVL IADKLAQSTV DALGDAVEVR WVDGPNRPEL LDAVKEADAL LVRSATTVDA

EVIAAAPNLK IVGRAGVGLD NVDIPAATEA GVMVANAPTS NIHSACEHAI SLLLSTARQI
 LLLMRRCVRA SGSGLLSTVW KFSEKLSVSS VLATLVSCLL SVLLRLRPPL LLTILTLTLL
 RAG

> RXA01193 (1-741, translated) 247 residues
 MRVALSGLTM AEYFRDVQNO DVLLFIDNIF RFTQAGSEVS TLLGRMPASV GYQPTLADEM
 GVLQERITST KGRSITSLQA VYVPADDYTD PAPATTF AHL DATTELDRSI ASKGIYPAVN
 PLTSTSRILE PAIVGERHYE VSQRVIGILQ KNKELQDIIA ILGMDELSEE DKITVARARR
 IERFLGQNFF VAEKFTGLPG SYVPLTDTVD AFERICNGDF DHYPEQAFNG LGGLDDVEAA
 YKKLTGK

> RXA01194 (1-372, translated) 124 residues
 MAEITVELVS VERMLWAGQA SIVTAQTTEG EIGVLPDHEP LLGQLVENG V TIQPIDGEK
 LIAGVSDGFL SVSKEKV TIL ADFAVWANEV DTASAEADLN SDELA KAHA EAGLRAVRRS
 SEGL

> RXA01200 (1-609, translated) 203 residues
 GCLRWKSEPS VLEV LKDAAE QTWSTPREFR AGLVQLGRRA LLRSAEKQGO LGQVEDELFR
 LSRILDRESK LTQLLSDRTO EIGGRRDLLA KVL YGKVTA V TEALALQAIG RPEHNPIDDI
 AALAGAVAE L QGRSVAHVVT AVELNEGQQO ALAEKLGRIY GRAMSIHSEV DTSLLGGMII
 RVGDEVIDGS TSGKLERLRA SFA

> RXA01201 (1-1641, translated) 547 residues
 MAELTISSDE IRS AIANYTS SYSAEASREE VGVVISAADG IAQVSGLP SV MANELLEFPG
 GVIGVAQNLE ADRVG VVVLG NYELLKEGDQ VRR TGDVLSI PVGEAFLGRV INPLGQPIDG
 LGEIASEEDR VLELQAPTVL ERQPVEEPLA TG IKAIDAMT PIGRGQRQLI IGDRKTGKTA
 VCVDTILNQK ANWETGDKTK QVRCIYVAIG QKGSTIAALR KTL EEQGALE YTTIVAAPAS
 DAAGFKWLAP FAGAALAQHW MYQGNHVLVI YDDLTKQAEA YRAIS LLLRR PPGREAYPGD
 VFYLHSRLLE RAAKLSDELG AGSITALPII ETKANDVSAF IPTNVISITD GQVFLESDLF
 NRGVRPAINV GVS VSRVGG A QTKGMKKVA GSLRLDLAAF RDLEAFATFA SLDLAASKSQ
 LERGQRLVQL LIQSENAPQA VEYQIISLWL AGEGAFDNVP VEDVRRFESE LHEYLGSNAA
 QVYEQIAGGA QLSDESKETL LKATEDFKSA FQTTDGT PVI NEPEVEALDA GQVKKDQLTV
 SRKVS KK

> RXA01202 (1-975, translated) 325 residues
 MATIRELRDR IRS VNSTKKI TKAQELIATS RITKAQGRVA AAPYAE EIQ RVLERLASAS
 SLDHPMLRER EGGKRAAVLV VTS DRGMAGG YNHNVLK KAA ELEKLLAESG YEVVRYVTGK
 KGV DYYKFRA EDVAGTWTGF SQDPDWAATH NVRRHLIDGF TASSEGEAAW REGNLNPEGQ
 DIQGFQVHV VYTEFISMLT QNPVVHQLLP VEPVIEDEIF EKGEDLLSSS GEVEPDYEF E
 PDADTLLEAL LPQYVSRRLF SIFLEAAAAE SASRRNAMKS ATDNATELVK DLSRVANQAR
 QAQITQEITE IVGGAGALAD SGESD

> RXA01203 (1-639, translated) 213 residues
 MTTALEEQNA QQAATAGRVV RVIGAVVDVE FPRGELPALY NALTVEVTLE SVKKT VVLEV
 AQHLGDNLIR TIAMAPT DGL VRGA AVTDTA RPISVPVGDV VKGHVFNALG DCLDDVSLNN
 NPEIERWGIH REPPSFDQLE GKTEILETGI KVIDLLTPYV KGGKIGLFGG AGVGKTVLIQ
 EMITRIAREF SGTSVFAGVG KRTREGTDLF LEM

> RXA01204 (1-762, translated) 254 residues
 MKGEFHAPDL DKEFFPGHVT DSGEVVNMLF TDFANGWFAM DRIVLIRLLM TAVVVVFFLW
 AMRKPKLVPH GVQNFAEYAL DFVGIHIAED ILGKKKGRRF LPILATIFFA ALLMNLATII
 PGLNISSNSR IAFPIVMAVA GYIAFIYAGS KRYGFFKYVK SSVVIPNIPP ALHVLVVP I E
 FFSTFILRPV TLALRLMANF LAGHIILVLL FFATNFFFFQ FNGWTAMSGV TILMAVLFTV
 YEIIVIFLQA YIFA

> RXA01216 (1-1101, translated) 367 residues
 TDHTLSALLD AHVEVPTAVT VLTMLRDDPT GYGRIVRNEE GEVTAIVEQK DASA EVQAID
 EVNSGVFAFD AAILRSALAE LKSDNAQ GEL YLTDVLGIAR GEGHPVRAHT AADARELAGV
 NDRVQLAEAG AELNRRTVIA AMRGGATIVD PATTWIDVEV SIGRDVIIHP GTQLKGETVI
 GDRVEVGPDT TLTNMTIGDG ASVIRTHGFD STIGENATVG PFTYIRPGTT LGPEGKLG GF

VETKKATIGR GSKVPHLTYV GDATEEESN IGASSVFVNY DGENKHHTTI GSHVRTGSDT
MFIAPVTVGD GAYSGAGTVI KDDVPPGALA VSGGRQRNIE GWVQKKRPGT AAAQAAEAAQ
NVHNQEG

> RXA01225 (1-1440, translated) 480 residues
MTHNHKDWND RIAVAEEMVP LIGRLHRNNN VVSVFGRLL VNVSDIDIK SHRYARHIIS
KELPLESLD ILRELVDMLN GTASIDLGQL AYSFEESEST DLRAFLEDAL APVIGAETDI
NPTDIVLYGF GRIGRLLARI LVSREALYDG ARLRAIVVRK NGEEDLVKRA SLLRRDSVHG
GFDGTITTDY DNNIIWANGT PIKVIYSNDP ATIDYTEYGI NDAVVVDNTG RWRDREGLSQ
HLKSKGVAKV VLTAPGKGD LKNIVYGINHT DITADDQIVS AASCTTNAIT PVLKVINDRY
GVEFGHVETV HSFTNDQNLN DNFHKGSRG RAAGLNMVLT ETGAAKAVSK ALPELEGKLT
GNAIRVPTPD VSMVNLNLT NTEVDRDEVN EFLRRVSLHS DLRQQIDWIR SPEVVSTDFV
GTTHAGIVDG LATIATGRHL VLYVWYDNEF GYSNQVIRIV EEIAGVRPRV YPERRQPAVL

> RXA01227 (1-321, translated) 107 residues
MTYTIAQPCV DVLDRACVEE CPVDCIYEGK RMLYIHPDEC VDCGACEPVC PVEAIFYEDD
VPHEWWDYTG ANAAFFDDL G SPGGAASLGP QDFDAQLVAV LPPQNQN

> RXA01242 (1-777, translated) 259 residues
MYAEERRRQI ASLTAVEGRV NVTELAGREF VTAETIRRD L AVLDREGIVH RVHGGAVATQ
SFQTTELSL TRFRSASSAK YSIAKAAMQF LPAEHGGLFL DAGTTVTALA DLISEHPSSK
QWSIVTNCLP IALNLANAGL DDVQLLGGSV RAITQAVVG D TALRTLALMR ADVVFIGTNA
LTLDHGLSTA DSQEAAMKSA MITNAHKVVV LCDSTKMGT D YLVSFGAIS D IDVVVTDAGA
PASFVEQLRE RDVEVVIAE

> RXA01243 (1-960, translated) 320 residues
MILTVTASPY LLSTNELDGT IEIGEANKIR QVSTVAGGFG TGVAATLFY G NETFAVFPA
PEISHYMRLV TFAGLPHEII PVAGPIPMHL TMRDAEGNET KFKDSPMLD VSQALILRDL
VVRRAEDAAW VLLGGNLPSI APAAWFVDV RSLRLYHPV KVAIAATGAA LRAVIRQLAA
TSPDALIVAA EEIEIATGLE PKTLRGPVVE GDLSPVAAA RALIDSGVTE VLVTNKRTE S
LYVSESESL ASYDSTPGKQ GVNWRESFTA GFLAASNDGK STEDSVINAV AYANAEGSEW
DNYIPTPKL RAEHVVIKSL

> RXA01259 (1-858, translated) 286 residues
MGTRFLPATK TIPKELLPVV DTPGIELVAK EAADLGATRL AIITAPNKDG ILKHFEFPE
LEATLEARGK TDQLNKVRAA RELIATVPV QEKPLGLGHA VGLAESVLDD DEDVVAVMLP
DDLVLFPFV ERMAEVRKF GGSVLAAIEV AEDEVSNYGV FKLGE L DAE S ESEGIRRVG
MVEKPAPEDA PSRFAATGRY LLDRAIFDAL RRIEPGAGGE LQLTDAIALL IEEGHPVHIV
VHEGKRHD LG NPAGYIPAVV YFGLRHA EYG SKIHRVKEI LAEFES

> RXA01262 (1-1161, translated) 387 residues
MKIAVAGLGY VGLSNAALLS KNHKVVAVDI DEERVKLQVE FRSPIVDS DL EEYLSTKPQN
LTATTDAAEA YKGADFIVIA TPTNYDPESN FFDTSVESV IEIVLKVSPG STIVIKSTIP
VGFTSELRIK HPEASIIFSP EFLREGRAFY DNLVPSRVV GDRSPLGEEF ATLLAEGAKE
KPPILLTDST EAEAIKLFSN TYLALRVAFF NELDTYASVR SLDTKQIIEG VGLDPRIGSH
YNNPSFGYGG YCLPKDTKQL LANYKDVPQN LISAVVQANK TRKDFIAEDI LSKSPTVVGI
YRLVMKSGSD NFRSSSIQGV MKRIKAKGIE IVVFEPNLGE ETFYNSKILN DIEEFKDYCD
IIIANRPTDE LSDVPEKVYT RDIFQRD

> RXA01311 (1-747, translated) 249 residues
MKLTLEIWRQ AGPTAEGKFE TVQVDDAVAQ MSILELLDHV NNKFIEEGKE PFAFASDCRE
GICGTCGLLV NGRPHGADQN KPACAQLV S YKEGDTLKIE PLRSAAYPVI KDMVVDRSAL
DRVMEQGGYV TINAGTAPDA DTLHVN HETA ELALDHAACI GCGACVAACP NGAHLFTGA
KLVLHSLPLL GKEERGLRAR K MVDEMETFNF GHCSLYGECA DVCPAGIPLT AVAAVTKERA
RAAFRGKDD

> RXA01312 (1-1077, translated) 359 residues
ESLRNDGRIW SPKEPNDRD PNTIPEDERD YFLERRYPAF GNLVPRDVA S RAISQINAG
LGVGPLNNA YLDFRDATER LGQDTIRERY SNLFTMYEEA IGEDPYSSPM RIAPTCHFTM
GGLWTFNEM TSLPGLFCAG EASWYHGAN RLGANSLLS SVDGWFTLPF TIPNYLGPLL

GSERLSEDAP EAQAAIARAQ ARIDRLMGNR PEWVGDNVHG PEYYHRQLGD ILYFSCGVSR
 NVEDLQDGIN KIRALRDDFW KNMRITGSTD EMNQVLEYAA RVADYIDLGE LMCVDALDRD
 ESCGAHFRDD HLSEDEGAQR DDQNWCFVSA WEPGENGTFFV CHAEPLFFES VPLQTRNYK

> RXA01325 (1-672, translated) 224 residues
 MDMTISRSTM AQILDYTLTG PEVTNSELAA FIDSAIELGV GTICVPNSMV NLTAQAQEG
 IRVATVAGFP HGKTPALVKA AEARLAVQSG ASEVDVVDI AVVKEGDANR LLQEIVAI
 AVPSPVVLKF ILETAVVSDE AIVTAVNALI AAGADFAKTS TGFHPAGGAT VEAVRVMASA
 SRGRVGIKAA GGVKTWEDAV AFVEAGATRI GTSNAGAILE GAPE

> RXA01332 (1-549, translated) 183 residues
 AAAAAAED APGAQAFTRI EDAAIADAVID AVLIAVPGQF HEPVLVPALE AGLPILCEKP
 LTPDSESLR IVELEQKLDK PHIQVGFMR FDPEYNNLRK LVESGEAGEL LMLRGLHRNP
 SVGESYTQSM LITDSVVHEF DVIPWLAGSR VVSVEVKYPK TSSLAHSGLK EPILVIMELE
 NGV

> RXA01350 (1-984, translated) 328 residues
 MNSPQNVSTK KVTVTGAAGQ ISYSLWRIA NGEVFGTDTF VELKLEIPQ ALGGAEGVAM
 ELLDSAFPLL RNITITADAN EAFDGANAAF LVGAKPRGKG EERADLLANN GKIFGPQGA
 INDNAADDIR VLVVGNPANT NALIASAAAP DVPASRFNAM MRLDHNRAIS QLATKLGRGS
 AEFNNIVVWG NHSATQFPDI TYATVGGEKV TDLVDHWDYV EEFIPRVANR GAEIIEVRGK
 SSAASAASSA IDHMRDWVQG TEAWSSAAIP STGAYGIPEG IFVGLPTVSR NGEWEIVEGL
 EISDFQRARI DANAQELQAE REAVRDLL

> RXA01365 (1-894, translated) 298 residues
 MRTRESVTAV IKAYDVRGVV GVDIDADFIS ETGAAFGRML RSEGETTVAI GHDMRDSSPE
 LAKAFADGVT AQGLDVVHLG LTSTDLYFA SGTLCACAGM FTASHNPAEY NGIKLCRAGA
 RVPVQDGLA NIIDDLVEGV PAFDGESGVS SEQDLSAYA EYLNELVDLK NIRPMKVAVD
 AANGMGGFTV PEVFKGLPLD VAPLYFELDG NFPNHEANPL EPANLVDLQK FTVETGSDIG
 LAFDGDADRC FVVDEKQPV SPSAICAIVA ERYLEKLPGS TIIHNLITSK AVPEVIAE

> RXA01369 (1-501, translated) 167 residues
 NEQCLGDVGV LGALLNFYK LAPGEALYLD AANLHAYISG LGVEIMANSND NVLRGGLTSK
 YVDVPELVRV LDFNSLENAR VDVEEDGATT HYPVPINEFQ LDRVAVQGEA EANHGDGPMIV
 LCTSGTVSLE AGEKTLEVA GHAAWVPAND PTIAMRSED EVFLARV

> RXA01373 (1-708, translated) 236 residues
 MELLEGSLRT YPWGSRTLIA DLKGEESPSS RPEAEVWFGA HPGSPSTIGG NALNEVIAAN
 PEEALGTRVA EAFENELPFL LKILAAGAPL SLQAHPSLEQ AREGFARENS AGIDLGA
 NYRDPNHKPE LIVALTEFIA MAGFRPLRNT LTIFDALACE PLDRYRSLMT VDNEEESLRA
 LFTTWITIFI GKRHELIDAL ISNAHTYLEA SDRDEDIAFV LSHIIELENEQ YPGDVG

> RXA01377 (1-1086, translated) 362 residues
 MTLTDNSKNV DAVILVGGKG TRLRPLTVNT PKPMLPTAGH PFLTHLLARI KAAGITHVVL
 GTSFKAEVFE EYFGDGSEMG LEIEYVVEDQ PLGTGGGIRN VYDKLRHDTA IVFNGDVL
 ADLNSILDTH REKDADLTMH LVRVANPRAF GCVPTDEDGR VSEFLEKTED PPTDQINAGC
 YVFKKELIEQ IPAGRAVSVE RETFPQLLEE GKRVFGHVDA SYWRDMGTPS DFVRGSADLV
 RGIAYSPLE GKTGESLVDA SAGVRDGVLL LGGTVVGRGT EIGAGCRVDN TVIFDGV
 TIE PGAVIENSII SSGARIGANA HISGCIIGEG AQVGARCELN AGMRVFPGVV IPDSGIRFSS
 DQ

> RXA01392 (1-1077, translated) 359 residues
 VANTSSDWAG APQNASADGE FVRDNTYIDD RIVADVDPAGS EPIAQEDGTF HWPVEAGRYR
 LVAARACPWA HRTVITRLL GLENVISLGL TGPTHVRSW TFDLPNHL DVLQIPRLQD
 AYFNRFPDYP RGITVPALVE ESSKKVVTND YPSITIDFNL EWKQFHREGA PNLYPAELRE
 EMAPVMKRIF TEVNNGVYRT GFAGSQEAHN EAYKRLWVAL DWLEDRLSTR RYLMGDH
 ITE ADIRLYPTLV RFDVAVYGHF KCGRNKITEM PNLWGYLRDL FQTPGFGDTT DFTEIKQHY
 Y ITHAEINPTR IVPVGPDL SG FATPHGREKL GGSPFAEGVT LPGPIPAGEE VKNPEPFQK

> RXA01436 (1-1191, translated) 397 residues

MALALVLNSG SSSIKFQLVN PENSAIDEPY VSGLVEQIGE PNGRIVLKIE GEKYTLETPI
ADHSEGLNLA FDLMDQHNCG PSQLEITAVG HRVVHGGILF SAPELITDEI VEMIRDLIPL
APLHNPANVD GIDVARKILP DVPHVAVFDT GFFHSLPPAA ALYAINKDVA AEHGIRRYGF
HGTSHEFVSK RVVEILEKPT EDINTITFHL GNGASMAAVQ GGRAVDTSMG MTPLAGLVMG
TRSGDIDPGI VFHLSRTAGM SIDEIDNLLN KKSQVKGSLG VDNDFRELREM IDNNDQDAWS
AYNIYIHQLR RYLGSYMVAL GRVDTIVFTA GVGENAQFVR EDALAGLEMY GIEIDPERNA
LPNDGPRLIS TDASKVKVVF IPTNEELAIA RYAVKFA

> RXA01468 (1-825, translated) 275 residues
MTVNISYLTMD MDGVLKEGE IIPGADRFLQ SLTDNNVEFM VLTNNSIFTP RDL SARLKTS
GLDIPPERIW TSATATAHFL KSQVKEGTAY VVGESGLTTA LHTAGWILTD ANPEFVVLGE
TRTYSFEAIT TAINLILGGA RFICTNPDVT GPSPSGILPA TGSVAALITA ATGAEPYYIG
KPNPVMMSA LNTIGAHSEH TVMIGDRMDT DVKSGLEAGL STVLVRSGIS DDAEIRRYPF
RPTHVINSIA DLADCWDDPF GDGAFHVPDE QQFTD

> RXA01478 (1-1836, translated) 612 residues
MTIPGASTQT DIPLDTLLED YALLSDTHGT ALLSNMGSLD WLCLPRFDSQ AMFTRLLGDR
EHGWSLRYV GGEVISQNYL GDSFVVQTVW RSETGTARVV DFMPHIGQEQ PDITDLVRSV
HCVEGEVDVE SILRLRFYDG ESTPYFRTST VDGISIVQAV AGPNAVYVRG PEMPHRPAKD
CHSGTFHLTA GESVEWVLTW APSFEPHPPM PDYTRSLEST LSFWASWVEE LPHQRLYDAE
VRRSMLVLR LDTLQTGGIV AAPTTSLPED FGGIRNWDYR YVWLRDSALT IEALVEYGFS
QAALQWRTWL LRAIAGDPEN LRIMYGLGGE RHLPERELQH LRGYENSVPV RVGNAAEQY
QADVVEVMV ALETIRRAGC LEDEFSSWGMQ KAILDFQEAN FDRKDQGIWE MRSEPQYFTH
GRAMMWAGFD RGIKAIIEFN LDGPIERWRE LRAKLREEIM TNGFNEEIQS FTQCYDNTQV
DASLLQLAQI GFIGFDDPKM LSTVARIEQE LLDAHGFHLR YHTDGSGLA GDEYFPLICS
FWLVEQYASS NRLDEAKEKM NRILAVQSPL GLLAEEYSTH HGRLAGNYPQ AFSHIGLISA
ARAINFEAR NR

> RXA01482 (1-1875, translated) 625 residues
MRMCGIVGYI GQAGDSRDYF ALDVVVEGLR RLEYRGYDSA GIAIHANGEI SYRKKAGKVA
ALDAEIAKAP LPDSILGIGH TRWATHGGPT DVNAHPHVVS NGKLAVVHNG IIEFNAELRS
ELSAKGYNFV SDTDTEVAAS LLAEIYNTQA NGDLTLAMQL TGQRLEGAFT LLAIHADHDD
RIVAARRNSP LVIGVGEGEN FLGSDVSGFI DYTRKAVELA NDQVVTITAD DYAITNFDGS
EAVGKPFVDVE WDAAAAEKGG FGSFMEKEIH DQPAAVRDTL MGRLEDEDGKL VLDELRIEAD
ILRSVDKIVI VACGTAAYAG QVARYAIEHW CRIPTEVELA HEFRYRDPIL NEKTLVVALS
QSGETMDTLM AVRHAREQGA KVVVAICNTV STLPREADAS LYTYAGPEIA VASTKAFLAQ
ITASYLLGLY LAQLRGNKFA DEVSSILDSL REMPEKIQQV IDAEEQIKKL GQDMADAKSV
LFLGRHVGF VLEGALKLK EIAYLHAEGF AAGELKHGPI ALVEEGQPIF VIVPSRGRD
SLHSKVVSNI QEIRARGAVT IVIAEEGDEA VNDYANFIIR IPQAPTLMQP LLSTVPLQIF
ACAVATAKGY NVDQPRNLAK SVTVE

> RXA01534 (1-489, translated) 163 residues
MTSAITTATD LRSVLNVPT PISFIATHTD QPLGMIVGSF VSISAEPPLV GIFLQKSSSS
WPAIEQALVT GQELGISILG GAHADHVRKL SGPSDQRFEN LGWASTENGA IHLEGADAQL
TTKLHDLQEI GDHFFAVLEV IDASADQDFS SALVYHRSQV SSL

> RXA01535 (1-1407, translated) 469 residues
MTEQEFRIEH DTMGEVKVPA KALWQAQTQR AVENFPISGR GLESAQIRAM GLLKAACAQV
NKDSGALDAE KADAIIAAGK EIASGKHDAE FPIDVFQTS GTSSNMNTNE VIASIAKANG
VEVHPNDHVN MGQSSNDTFP TATHVAATEA AVNDLIPGLK VLHESLAKKA NEWSEVVKSG
RTHLMDAVPV TLGQEFGGYA RQIQLGIERV EATLPRLGEL AIGGTAAGTG INTSADFGGK
VVAELINLTD VKELKEAENH FEAQAARDAL VEFSGAMRVI AVSLYKIAND IRLMSGPLT
GLGEIRLPDL QPGSSIMPGK VNPVLCETAT QVSAQVIGND AAVAFSGTQG QFELNVFIPV
MARNVLESAR LLANTSRVFA TRLVDGIEPN EAHMKELAES SPSIVTPLNS AIGYEAANKV
AKTALAEGKT IRQTVIDLGL VDGEKLTEEE LDKRLDVLAM AHTERENKF

> RXA01550 (1-1344, translated) 448 residues
IFQQLFWRVW EIITEIDRRF RLERAADGLD EETIDRMAPI QRGTVHMAWI ACYAAYSING
VAALHTEIIK AETLADWYAL WPEKFNNKTN GVTPRRWLRM INPGLSLLT RLSGSDDWVT
DLDELKKLRS YADDKSVLEE LRAIKAANKQ DFAEWILERQ GIEIDPESIF DVQIKRLHEY

KRQLMNALYV LDLYFRIKED GLTDIPARTV IFGAKAAPGY VRAKAIKLI NSIADLVNND
 PEVSPLLKVV FVENYNVSPA EHILPASDVS EQISTAGKEA SGTSNMKFMM NGALTTLGTMD
 GANVEIVDSV GEENAYIFGA RVEELPALRE SYEPYELYET VPGLKRALDA LDNGTLNDNN
 SGLFYDLKHS LIHGYGKDAS DTYYVLGDFA DYRETRDRMA ADYASDPLGW ARMAWINICE
 SGRFSSDRTI RDYATEIWKL EPTPAVKK

> RXA01562 (1-1038, translated) 346 residues
 EQDLDELMHS TGVIDPLTGA PKSASKPGWT SVFSDELVKI GAQENENVVAI TAAMAGPTGL
 SKFEANFPNR FFDVGIAEQH AVTSAAGLAL GGKHPVVAIY STFLNRAFDQ LLMDVGMLNQ
 PVTLVLDLRSV VTGSDGASHN GVWDMALTSI VPGVQVAAPR DEDSLRELLN EASISDDGPT
 VVRFPPKGDLP TPIVAIDTLE DGVDVLAYED ATDVESTDDA PSVLIIAVGE RATVALDVAS
 RIKQHGVNVT VVDPRWIVPI PQSLVALSDD HDLVITIEDG VIHGGVGSLL SDALNASEVD
 TPRRQIAVPQ KYLDHASRNE VLADYGLDAD GIETTVVGWL DSLFGE

> RXA01569 (1-426, translated) 142 residues
 APRHYIVRTS WVIGDGNFV RTMKSLDERG IAPSVVDDQI GRLSFTEDIA AGIAHLLEVG
 AAYGTYNLTN TGEPASWADV ARAVFSDFPTK VTGVSTAEYF ANKDAAPRPL NSVLDLGKIE
 ATGFSAPTQW TRLNDYLKEL SK

> RXA01570 (1-855, translated) 285 residues
 VKGIILAGGS GTRLYPITKG ISKQLMPIYD KPMVYYPLTT LIQAGIKDIL IITTPEDSAS
 FERLLGDGSS WGINLTYAVQ PSPDGLAQAF IIGEEFIGDD DVALVLGDNI FDGAQLGHAL
 KQCSNPDDGI VFAYEVSDEP RYGVVEFDAA NKAVSIEEKP TAPKSNFAVV GLYFYDNRVV
 DIAKSIKPSS RGELEITSVN DAYLQQGALT VQRLDRGDVW LDTGTIDSMS EASSYVEVLQ
 KRTGNIIGSP EVAAYREGFI TAEELTVLGE ELKKSQYGNV LLRAL

> RXA01571 (1-600, translated) 200 residues
 VSISVKALQK SGPEAPFEVK IIERRDPRAD DVVIDIKAAG ICHSDIHTIR NEWGEAHFPL
 TVGHEIAGVV SAVGSDVTKW KVGDRVGVGC LVNSCGECEQ CVAGFENNCL RGNVGTYNNS
 DVDGTITQGG YAEKVVNERR FLCISIPEELN FDVAAPLLCA GITYTSPIAR WNVKEGDKVA
 VMGLGGTRTH GCPDRCSQGC

> RXA01572 (1-492, translated) 164 residues
 MGVDIAAAAG AEVTVLSRSL RKAELAKELG AARTLATSDE DFFTEHAGEF DFILNTISAS
 IPVDKYLSLL KPHGVMAVVG LPPEKQPLSF GALIGGGKVL TGSNIGGIPE TQEMLDFAK
 HGLGAMIEV GVNDVDAAYD RVVAGDVQFR VVIDTASFAE VEAV

> RXA01615 (1-939, translated) 313 residues
 MSDSPKNAPR ITDEADVLI GAGIMSSTLG AMLRQLEPSW TQIVFERLDG PAQESSSPWN
 NAGTGHSALC ELNYTPEVKG KVEIAKAVGI NEKFQVSRQF WSHLVEEGVL SDPKFINPV
 PHVSFGQAD QVAYIKARYE ALKDHPLEFQG MTYADDEATF TEKLPLMAKG RDFSDFVAIS
 WIDEGTDINY GAQTKQYLD AEEVGTEIRY GHEVKSIAKAD GAKWIVTVKN VHTGDTKTIK
 ANFVFVGAGG YALDLLRSAG IPQVKGFAGF PVSGWLRLCT NEELIEQHAA KVYGKASVGA
 PPMSVPHLDT RVI

> RXA01626 (1-345, translated) 115 residues
 MSKTIIIVRTE IEIPGHPTAI HIAEMQELPP SEAQGGVQMC KMQRRIELAG TAEGDVVTGA
 GVIGGSNFQL NNEPNEVPH PDIYADFPDI KAVVISAETF EGLWLEAGAK FPGLN

> RXA01632 (1-1005, translated) 335 residues
 MTLRIALFGA GRIGHVHAAN IAANPDLELV VIADPFIEGA QRLAEANGAE AVASPDEVFA
 RDDIDGIVIG SPTSTHVDLI TRAVERGIPA LCEKPIDLDI EMVRACKEKI GDGASKVMLG
 FNRFRDPSFA AINARVANQE IGNLEQLVII SRDPAPAPKD YIAGSGGIFR DMTIHDLDMA
 RFFVFNIVEV TATGANVFSQ EIAEFNDYDQ VIVTLRGSKG ELINIVNSRH CSYGYDQRL
 AFGSKGMLAA DNIRPTTVRK HNAESTEAD PIFNFFLERY DAAYKAELAT FAQGIRDGQG
 FSPNFEDGVI ALELANACLE SAQTGRVTTL NPANV

> RXA01633 (1-1083, translated) 361 residues
 MKNITIGMVG VGRIGRMHVA NMLAVAETLK ERDLNIEIVL ADAMPGFAEQ VGADMGVKAA

ASVDKLIEDG VDALFIATST AGHVDVLRKG IAAKLPMFCE KPIASDVPE LNIIREIDAA
GATVQVGHQR RFDLG YQEAK RRLDAGDLGW LHS LKAVSSD AFPPPVS YCA TSGGLFRDVS
LHDFDIIRWL TGQDIVEVYA KGSNNGDPEI GAVGDIDTGA ALLTLADGTL ATAIATRYNG
AGHDVRLDVM GSKDSTIVGL DEKSAFASAE EGIDFPTGES HPTFAERFAD AYKNECIAFV
ELILGERENP CTPADAVAAA IVADAAQLSL VTGEPVKIPT VREILEGSAQ PVEVRALVPS
A

> RXA01695 (1-210, translated) 70 residues
AGLLGASPGA SIAPSAMIEL LERCFGDRMI EWGDKLKDMI PSYGKKLASE PALFEQQWAR
TQKTLKLEEA

> RXA01702 (1-1032, translated) 344 residues
MPIATPEVYN EMLDRAKEGG FAFPAINCTS SETINAALKG FAEAESDGII QFSTGGAEFG
SGLAVKNKVK GAVALAAFAH EAAKSYGINV ALHTDHCQKE VLDEYVRPLL AISQERVDRG
ELPLFQSHMW DGSAPVIDEN LEIAQELLAK AKAANIILEV EIGVVGGEED GVEAKAGANL
YTSPEDFEKT IDAIGTGEKG RYLLAATFGN VHGVYKPGNV KLRPEVLLEG QQVARKKLGL
ADDALPFDV FHGGSGSEKE KIEEALTYGV IKMNVDTDTQ YAFTRPIVSH MFENYNGVLK
IDGEVGNKKA YDPRSYMKKA EQSMSERIE SCQDLKSVGK TTSK

> RXA01705 (1-603, translated) 201 residues
MGILNSISTP ADLKALNDED LDALAKEIRT FLVDKVAATG GHLGPNLGVV ELTIGLHRVF
DSPQDPPIFD TSHQSYVHKI LTGRAKDFDS LRQKDGLSGY TCRAESEHDW TESSHASAAL
SYADGLSKAK QLDGDTTHSV VAVVG DGALT GCMCWEALNN IAAGKDRKVV VVVNDNGRSY
SPTIGGFAEN LAGLRMQPFY D

> RXA01743 (1-801, translated) 267 residues
MDLNTFWFIL IAFLFAGYFL LEGFDFGVGI LAP IIGKDSA ARNTVIRTIG PVWDGNEVWL
IVAGGALFAA FPEWYATMFS GMYLPLFLVL VSLIMRVVGL EWRKKVDDPR WQKWS DRAIF
IGSWTPPLMW GFIFANILRG MPLKADHTID AAAALPGMVN VFALILGALAF TALFALHGLA
FIRLKTAGR V RTDAAKAAPV VALLAAVTGG PFVLWAAIAY GRSWSWILAV LIIAAVLGGA
FALIKDRDGL SFLSTSVAVI GVVALLF

> RXA01744 (1-1302, translated) 434 residues
WSEYSRFVGD VFGGPLALEG LIAFFLESVF LGLWIFGWGK IPGWLHTASI WIVAIATNIS
AYFIIVANSF MQHPVGA EYN PETGRAELTD FWALLTNSTA LAAFPHAVAG GFLTAGTFVL
GISGWWIIRA HRQAKKA ESE IESKHS MHRP ALWVGWTTV VSSVALFITG DIQAKLMFVQ
QPMKMASAES LCETATDPNF SILTIGTHNN CDTVTHLIDV PFVLPFLAEG KFTGVTLQGV
NQLQAAAEQA YGPGNYS PNL FVTYWSFRAM IGLMLGSLAI AAIWLLLRK KRTPTGKIAR
LFQIGSLIAI PFPFLANSAG WIFTEMGRQP WVVHPNPESA GDARTEMIRM TVDMGVSDHA
PWQVWLTLIG FTILYLILFV VWVWLIRRAV LIGPPEEGAP SVEAKTGPAT PIGSDMPMTP
LQFTAAAPT GEKE

> RXA01745 (1-1494, translated) 498 residues
ILADEDDTVD VGAVIARIGD ANAAAA PAEE EAAPAE EEEEP VKEEPKKEAA PEAPAA TGAA
TDVEMPELGE SVTEGTITQW LKAVGDTVEV DEPLLEVSTD KVDTEIPSPV AGTIVEILAD
EDDTVDVGAV IARIGDANAA AAPAE EEEAAP AEEEEPVKEE PKKEEPKKEE PKKEAATTPA
AASATVSASG DNVPYVTPLV RKLAEKHGVD LNTVTGTGIG GRIRKQDVLA AANGEAAPAE
AAPVSAWST KSVDPEKAKL RGTQKVNRI REITAMKTVE ALQISAQLTQ LHEVDMTRVA
ELRKKNKPAF IEKHGVNLTY LPFFVKAVVE ALVSHPNVNA SFNAKT KEMT YHSSVNLSIA
VDT PAGLLTP VIHDAQDLSI PEIAKAIVDL ADRSRNNKLK PNDLSGGTFT ITNIGSEGAL
SDTPILVPPQ AGILGTGAIV KRPVVITEDG IDSIAIRQMV FLPLTYDHQV VDGADAGRFL
TTIKDRLETA NFEGDLQL

> RXA01758 (1-1017, translated) 339 residues
MPKYIAMQVS ESGAPLAANL VQPAPLKSRE VRVEIAASGV CHADIGTAAA SGKHTVFPVT
PGHEIAGTIA EIGENVSRWT VGDRVAIGWF GGNCGDCAFC RAGDPVHCRE RKIPGVSYAG
GWAQNIVVPA EALAAIPDGM DFYEPAPMGC AGVTTFNALR NLKLDPGA AVFGIGGLVR
LAIQFAAKMG YRTITIARG L EREELARQLG ANHYIDSNDL HPGQALFELG GADLILSTAS
TTEPLSELST GLSIGGQLTI IGVDGGQITV SAAQLMMNRQ IITGHLTGSA NDEQTMKFA
HLHG VKPLIE RMPLDQANEA IARISAGKPR FRIVLEPNS

> RXA01814 (1-1662, translated) 554 residues
MAHERAGQLA QPEDLIDVAE LVTAYFTRKP DVNNPDQQVA FGTSNGHRGFA LDSAFNEDHI
LATTQAIVDY RNQPKNWVG PLFIGRDTHA LSEPAMISAL EVLIANDVEV LVDADGRYTP
TPAVSHAILR HNDGIILGTA GPSRPYADGI VITPSHNPPR DGGFKYNPAN GGPADTDTATD
WIANRANDIL RGDLDADVCRV PVSGLDERT TAYDFKGIYI ADLPNVVNID AIREAGVRIG
ADPMGGASVD YWGAIAETHG LNLTVVNPHV DSTFRFMTLD TDGKIRMDCS SPHAMASLID
NRDKFDVATG NDADADRHGI VTPDAGLMNP NYHLAVAIEY LFAHRPGWSA DTAVGKTLVS
SSMIDRVVAQ LGRTLVEVPV GFKWFVPGLI SGEIGFGGEE SAGASFLRMD GTTWSTDKDG
LILDLLAAEI IAVTGKTPSQ' RYAEAEFEFG APAYARTDAE ANREQKAILK ALSPEQVTAT
ELAGEAITAK LTEAPNGAA IGGLKVTEN AWFAARPSGT EDKYKIYAES FKGEHHLAQV
QKEAQALVSE VLGG

> RXA01839 (1-684, translated) 216 residues
MRMNAPVPLG GTSNHLITGV LKDLGAWDPF NVTEDADLGV RIAAKGYSTA VLDSVTWEEA
NSDTINWLRQ RSRWYKGYLQ TWLVYMRPK WLQVELGIIP AVRFTFLMAG TPPIAVLNLL
FWYLSLTWIL GQPGTIEQMF PPAVYYPALV CLVVANAATI FMNLIGCREG RDPLLLIAVL
TFPLYWLLMS IAALKGTWQL ITRPSYWEKT AHGLEA

> RXA01851 (1-1686, translated) 562 residues
MTSAHFESRR IGPPLRDNYD VIVIGGGISG VQIARHAQGR GLRTVMFEAR DYSSGTSSTT
SKMIHGGRLY LEQYDFGVVQ EAVKERRYLG IAAPHLVAPR SFMLTAFDWS EPKAPMLGAG
VALYETMAWQ RNQGQSKENH SPRFRWIPKN ALLKEVPWLD PEGKLGAWRH DDTLNLHAER
LLLAVIKAF AADGGTAINHA KVTRILRNVE EGRVKGEVET DQVTNTTHEV NAPVVINAAG
PWVAQALGDL AEVTKLKVRQ SKGVHLLTGD LGSQSGVFVR GKNGKHVIVN PWMGRTLIGP
TDTMIDGDAD DAAADESDID LLETIDSVR ATPLDRKEII STLGVVRPLV DDGTDYTTSS
RRFDISDHAN VGIDGLVSVS GSKWTTSRVM GYKVIEWHVE HQAAVLPLR HFDSRQMPLS
TSFGAYESVA DSFESALRSH PELDVDDEIR VHLARLYGTE HEKVLDLVAK QPDLGRRLLDP
DNLDIAAQAV FAVAEEAAVD LADVLDRIIV LGTLGYVQPA AVRATAEAMA QVTGWSAELI
DAQCQSYLAK QDKIQAVLKP YR

> RXA01859 (1-927, translated) 309 residues
MKKKSFPPIAR VIGIGVLGIA GMGILLWLA VTLSDPASPG AKETEVFDRW KVLFDYIIPP
VRVLVAIIIV ALIFVFIAAT VERTVTNRYR SSVDERVPL APKIVMAETR GVFGHPITIN
VLVPAHNEAE RITGTIQALK SQHEPPERIV VVADNCTDET TELARAEGVE VLETVNNKFK
KAGGLNQALS RMLPTLGEND IVMIVDADTA LDQGFLEKEAR RRFESDRALM AVGGFLYGES
GSGWLGGYQR NEYTRYSRDI YRRRGRVFLV TGTASAFRPR GLRTVAESRG TLIPGRKADV
YDTAGVDRR

> RXA01865 (1-315, translated) 105 residues
MTYTIAQPCV DVLDRACVEE CPVDCIYEGK RMLYIHPDEC VDCGACEPAC PVEAIFYEDD
VPDEWLDYND ANAAFFDDL G SPGGAAKLGP QDFDHPMIAA LPPQA

> RXA01882 (1-990, translated) 330 residues
MIITFTPNPS IDSTLSLGEE LSRGSVQRLD SVTAVAGGKG INVAHAVLLA GFETLAVFPA
GKLDPFVPLV RDIGLPVETV VINKNVRTNT TVTEPDGTTT KLNGPGAPLS EQKLSLEKV
LIDALRPEVT WVVLGASLPP GAPVDWYARL TALIHSARPD VRVAVDTSK PLMALGESLD
TPGAAPNLIK PNGLELGQLA NTDGEELEAR AAQGDYDAII AAADVLVNRG IEQVLVTLGA
AGAVLVNAEG AWTATSPKID VVSTVGAGDC ALAGFVMARS QKKTLEESLL NAVSYGSTAA
SLPGTTIPRP DQLATAGATV TQVKGLKESA

> RXA01884 (1-1473, translated) 491 residues
MHVDGFRFDL ASTLAREFDD VDRLATFFDL VQQDPVVSQV KLIAEPWDVG EGGYQVGNFP
PLWTEWNGKY RDTVRDFWRG EPATLGEFAS RLTGSSDLYA NNGRRPTASI NFVTAHDGFT
LNDLVSYNEK HNMANGEDGR DGESHNRSWN CGVEGPTDDP EIMQLRAQQR RNFLTLLLS
QGTPLSHGD EMARTQNGNN NVYCDNELA WVNWDQAEEN ADLVSFTRRL LRIRANHPVF
RRRQFLAGGP LGADVDRDI AWLVPNGTLM TQDDWDFAFG KSLQVFFNGD AIEEPDYRGQ
KIHDSDFILM FNAHFEPIDF NLPPEHFGMK WKLLVDTEA VGHPLDLTI EAGGTITVPA
RSTMLLRQVE APDYTKLEEK IAAEKREQL AAEKEAAEKR ELELAAAKEA EDAAEALHLA
AERASTQAE LAHQHGADAI ADEVAEEPQE LPQDEVAEEV ETEPDTEPDT ESDSEQAEEA

SEEPEADEEEE K

> RXA01886 (1-774, translated) 258 residues

MTFKLAACAE MIYQDLPFEE RVKTISDQGF LVEIWDWSTK DIDALVATGA EFSSMTGYLR
GDLITEQGRA ELLATASESL AVAEKLNCPK LNLHGTGLGP QGLPVTPIEV VTPEMWLYAA
ETLRQIAELG ERAGKVFLVE NLNLAVDHPG TPFKATDTL ALVKAVNHPN LRLNLDLYHA
QIGEGNLIEL LREAQPFIEG IQVADVPGRM EPGTGEINYQ GVAKALAAMG YDGVIGMEAW
ASGDSSDALQ ALKSAFTV

> RXA01887 (1-1011, translated) 337 residues

MSVKLALIGA GRIGSNHARL ITNHVIGSEL VAVVDPTPNA ETLADELGAV AFSNPDDVLT
RDDIDAVLIA TPARTHADLV VKAAAAGKHV FVEKPMVTL EDADRINAA REANTVLQVG
FNRRFAAGFA AARARIDAGD IGTPQLLRSV TRDPGPFTAD PNKIPQWTIF LETLIHDFDA
LCYLNPGATP VEVTAHADCL VVPEAAGTGF LDTAVVTVRF DNGAIGTAEA SFSAAAYGYDV
RGEVFGSKGM MTAGDARATN MTFYGAEGIA AATSRADTDL LSDAYRAEFQ AFVDSIRTNT
PSKVPGEAAR TALLIALGAI RSVETGATIN LAESIEV

> RXA01888 (1-558, translated) 186 residues

MADVAKAAGV STALVSIVFR DAPGASESTR NHVKEKAAEL GYIPDRRAQK LRQNRSGLIG
VAFEMHQAFH GDIVEHLYPT ARKHGFDLYL SAITPTRTEK DAVNALIRER CEAVILLGSR
MSPSDLETIA QQLPVQVIAR GSGTPKVSSV HVDDAVGAQL ALNHLIELGH EHIIYIDGGD
APGTQE

> RXA01891 (1-819, translated) 273 residues

YYNKDLWAKA GLEDRGPESW EEFSEWGPKL QEAMDSGFAH GWGDATNYLS WTFEGPMWSL
GGNYSEGWES RLTPPETIRA VEWLKSTVDE GFATVSTDVT NEFATGLIGS CIQSTGDLSS
VAGAASFDWG VAALPNPTGE GACPTGGAGL GIPSGISEQR QDNALKFIDF LTNAANTGYW
SRETGYVPVR KDAASDPDHA AFLEENPAYN VAVEQLPDTR SQDNFRVLLP NGDRTIGDAL
EKICLTGADI DVTLAEVETK LNTIYTRDIE PLI

> RXA01895 (1-816, translated) 272 residues

HHLFQPLLYQ VATGILSSGE IAPSTRQILG SQENVNVIK EVTDINVESQ TVTASLGEFT
RVFEYDSLIV GAGAGQSYFG NDHFAEFAPG MKSIDDALEI RARIIGAFER AEICEDPAER
ERLLTFVVG AGPTGVELAG QLAEMAHRTL AGEYKNFNTN SAKIILLDGA PQVLPFPFKR
LGRNAQRTLE KMGVNVRINA MVTNVDATSV TYKTKDGEEH TIESFCKIWS AGVAASPLGK
LVAEQTGVET DRAGRVMVND DLSVGDQKNV FV

> RXA01901 (1-1260, translated) 420 residues

MVKRQLPNPA ELLELMKFKK PELNGKKRRL DSALTIYDLR KIAKRRTPA AFDYTDGAAE
AELSITRARE AFENIEFHPD ILKPAEHVDT TTQILGGTSS MPFGIAPTGF TRLMQTEGEI
AGAGAAGAAG IPFTLSTLGT TSIEDVKATN PNGRNWFQLY VMRDREISYG LVERAAKAGF
DTLMFTVDTP IAGYRIRDSR NGFSIPPQLT PSTVLNAIPR PWWWIDFLT PTLEFASLSS
TGGTVGDLN SAMDPTISYE DLKVIREMWP GKLVVKGQVN VEDSVKLLDQ GVDGLILSNH
GGRQLDRAPV PFHLLPQVRK EVGSEPTIMI DTGIMNGADI VAAVAMGADF TLIGRAYLYG
LMAGGREGVD RTIAILRSEI TRTMALLGVS SLEELEPRHV TQLAKMVPVS DATRSAAAEI

> RXA01915 (1-1008, translated) 336 residues

IDVSVVVAN FLHREIVEAL LASGKHVLC E KPLSDTIEDA EAMIEAAGRA ATNGTIARIG
LTYRRSPGVA HIRDLVQSGE LGKVLHVTGH YWTDYGSNAQ APISWRYKGP NGSGALADVG
SHLTylaefv AGSDFAAVRG QQLSTVITER PKPLGAIVGH EGGAVSDEYE AVENDDIASF
SGSFIGGGTA TLQVSRISQG HPNTLGFEVF CEKGSVLFDF RNSGEFKIFT PATSGDISQE
AGYRTITIGP KHPYWRGGLA MDAPGVGIGQ NEGFFVQARA FLEEIAGISE AESLPRCATL
EEGLHNMQLI DAVSQSAAAG GETVAVPAAA LIPANN

> RXA01919 (1-285, translated) 95 residues

MTTTHDKQLG IMYIIMSFSF FFLGGLMALL IRAELFTPGL QFLSNEQFNQ LFTMHGTVML
LLYGTPIVWG FANYVLPLPT TXQAFSKTRV NSPRE

> RXA01927 (1-1116, translated) 372 residues

NDTRSAQAAL DLNEEIGGDQ AAVDATGSVY VASLTATKMR WMRDHEPENARTASVMLPH
 DFLTWHLMGR GRKVTDHGDA SGTGYYSTRD RAWRTDLAAL ALGHEVELPE LLAPNAIAGT
 TPGGVKVAAG TGDNAALG LDLQPGDVSV SIGTSGVAGM TVQHSVHDP GLVTGFADAT
 GAYFPLACTL NGAPVLEFGR RILGVEWEEF DALALAAQPG SGGVTLQPYL EGERTPNRPA
 ARGVLAGLNC ATTREDFARA TVEGLLLALD DAVTALVEAT GVPVQRIQLI GGGARSQAVR
 EIAPEIFGHE IVVPEPAEYV ALGAARQAAL ALSGEATPPQ WPTPGSDPHR APKNTELSTR
 YAKLRAATQG WY

> RXA01952 (1-216, translated) 72 residues
 PGLCRQAGRG SQGADDRIQH LLEEHGKKLP AEHNYGRMYK LPESMEEHFK ELDPTNTFNA
 GIGGTSPHKD WA

> RXA01955 (1-1599, translated) 533 residues
 MTQPGQTTTT SHEAIDAFKR IVGDEHVLTS ERATMPFSKG YRFGGGPVFA VVRPGTLVEM
 WRALQVSVDN NLIVIPQASN TGLTGGSGPG FQDYDRPIVI ISTHRIDEVH LINDAREAIS
 LAGTPLTHLT DALAKHQREP HSVGISTSIG ASVIGGIANN SGGSQIRKGP AFTREAI FAR
 VNDDGKVELV NHLGISLGDD PEVALDRLQR GEWSPEDVTP APEDSNETEY AEHLRKIVPS
 PARYNANPEY LFEASGSAGK LMFVAVRTRT FPREVHPTVF YIGTNNTHEL EEIRRLFLEA
 DMPLPISGEY MGRSAFDLAE KYGKDTFVFL KFMSPALQTR MFSFKTWANG LFSKIPGIGP
 TFADTVSQAM FSVLPNQLPK RMMEYRNRFE HLLLLTVSES QKAASEKMLK EFFAEPEHTG
 EFFICTSDEE KSASLNRFGA ASAATRYAAL KRRHIAGLIP IDVALRRDDW NWLEVLPEEI
 DDQLEVKAYY GHFFCHVMHQ DYVAKQGVDL EALHDRIQHL LEERGAKLPA EHN

> RXA01989 (1-630, translated) 210 residues
 VKSIHKTIHE GTGAGSDFLG WVDLPVDYDK EEFSRIVEAS KRIKENSVDL VVIGIGGSYL
 GARAAIEMLT SSFRNSNEYEP EIVFVGNHLS STYTKELVDY LADKDFSUNV ISKSGTTTEP
 AVAFRLFQQL VEERYGKEEA QKRIFATTDK EKGALKQLAT NEGYETFIVP DDVGGGRYSVL
 TAVGLLPAT AGINIEAMMI GAAKAREELS

> RXA02026 (1-720, translated) 240 residues
 PFHIQPETGL LNDPNGLIFY KGKYYVSHQW FPLGAVHGLK YWYNYTSDDL INFKPEGPIL
 NPDTKYDSHG VYSGSAFEYN GHLYMYTGN HRDNHWQRHA SQMIARLKED GSVEKFPPKV
 ISQQPEGYTS HFRDPKVFKY GEKYYAIIGA QNNDQQGRLL LYNTEDIINW HYLGEINTEL
 DDFGYMWECP DYFNLDNQDV ILICPQGIEP KGNQFKNIYQ SGYILGKFID EKLTYEHENF

> RXA02028 (1-426, translated) 142 residues
 MSLPIDEHVN AVKTVVVPAA GLGTRFLPAT KTVPKELLPV VDTPGIELIA AEEAELGATR
 LAIITAPNKA GVLAFHERSS ELEETLMERG KTDQVEIIRR AADLIKAVPV TQDKPLGLGH
 AVGLAESVLD DDEDVVAVML PH

> RXA02054 (1-1017, translated) 339 residues
 MTSLLVTTGA GFIGANFVRQ TVEQHPEYTH ITVLDKLTIA GNADNLKGLP DSKVTLIEGD
 ICDAELVDSL VKDHDITVHF AAESHNDNSL NDPSPFVHTN LIGTFVLLEA VRKHNRKFHH
 ISTDEVFGDL ELDDPNRFTE TTAYKPSSPY SATKAGSDHL VHAWIRSFGI QATMSNCSNN
 YGPYQHIEKF IPRQITNILA GLTPKLYGTG EQVRDWIHVD DHNDVHLIL SKGKIGETIYI
 IGADNDHVN KQVIELICEL MGLDKNAYEH VADRPBGHDMR YAMDSTKLRT ELGWAPKYTD
 VDSGMRKGLE QTIDWYRENE AWWRPKANNV EATYAKQGG

> RXA02055 (1-921, translated) 307 residues
 MEYGKQLTSH TTDieGLLVF DFPVHGDNRG WFKENWQRTK MTNLGLPDFG PVQNMSFNA
 TAGTTRGMHA EPWDFVSVV VGSVFGAWVD LRAGSSTYGN VVTQKITPDV GYVYPRGVAN
 GFQALDGTLY TYLVNDHWS PDAHYANVNL NMIDWPLPIT EISEKDKKHP ALIDATPLPA
 RKVLVVGAGG QLGTALRAQF PDAEFVTRQE LDITSDLTEA RAWKQYSTII NAAAYTAVDQ
 AEHDRAAWD INAAAVATSR PSRATTTSPS CTCQIMSSST VRANPTMKTH RFPHSACTAN
 PKQPATS

> RXA02056 (1-2868, translated) 956 residues
 RHSVPRLTKG QGTIIGVGSM DYPAEFQAS EDRLAELGVG KLVTITSTYD HRVIQGA VSG
 EFLRTMSRLL TDDSFWDIEF DAMNVPTPM RWAQDVPNTG VDKNTRVMQL IEAYRSRGHL
 IADTNPLSWV QPGMPVPDHR DLDIETHNLT IWDLDRFTNV GFGGKETMT LREVL SRLRA

AYTLKVGSEY THILDRDERT WLQDRLEAGM PKPTQAEQKY ILQKLNAAEA FENFLQTKYV
 GQKRFSLEGA EALIPLMDSA IDTAAGQGLD EVVIGMPHRG RLNVLFNIVG KPLASIFNEF
 EGQMEQQQIG GSGDVKYHLG SEGQHLQMFQ DGEIKVSLTA NPSHLEAVNP AMEGIVRAKQ
 DYLDKGVGDK TVVPLLLHGD AAFAGLGIVP ETINLAKLRG YDVGGTIHIV VNNQIGFTTT
 PDSSSRMHYA TDYAKAFGCP VFHVNGDDPE AVVWVGQLAT EYRRRFQKDV FIDLVCYRLR
 GHNEADDPSM TQPKMYELIT GRETVRAQYT EDLLGRGDLS NEDAEAVVRD FHDQMESVFN
 EVKEGGKKQA EAQTGITGSQ KLPHGLETNI SREELLELGQ AFANTPEGFN YHPRVAPVAK
 KRVSSTVEGG IDWAWGELLA FGSLANSRL VRLAGEDSRR GTFTQRHAVA IDPATAEFNN
 PLHELAQSKG NNGKFLVYNS ALTEYAGMGF EYGYSVGNED SIVAWEAQFG DFANGAQTII
 DEYVSSGEAK WGQTSKLILL LPHGYEGQGP DHSSARIERF LQLCAEGSMT VAQPSTPANH
 FHLLRRHALS DLKRPLVIFT PKSMRLNKAASAPEDFTEV TKFQSVINDP NVADAQVKK
 VMLVSGKLYY ELAKRKEKDG RDDIAIVRIE MLHPIPFNRI SEALAGYPNA EEVLVQDEP
 ANQGPWPFFYQ EHLPELIPNM PKMRRVSRRA QSSTATGVAK VHOLEEKQLI DEAFEA

> RXA02061 (1-1494, translated) 498 residues
 MTNVSGYHRP ELHITAESGV LFAPAGVLLD DDTWHFFHQY RSPDHGPRW AHQFAERTPF
 VWDICDDVLA PEGDETQVRA GSVVSNNGGV DLYFTSVVGP TSTIQLAHIN NIRGTTELIN
 EDELGLDPDV SRIGEVVNT DGIVKFRSPC VIPGWEDQGN RDEGHSGWLM LAVTGPVEAP
 TVVLDSPDG REWSITGPLS LNGLSGLESD EVLVAPRMIR LRDEVDHEIY DVLIVTIEQD
 GIDISGYLVG QLNGSEFDVK TPFTRIDFGH DFSRPRNTNY AETTIGYDFA HIFGLMNGVG
 RLDSPTEHLS WKEEGWANAI SFPRIVTLQD GTVFQTPPEG LLDAIHESEA AAGWTGLCEI
 PSNSAVEVAL KDQEGEIAAT ITHRHNLV VDRSMNPNHAG DPHAIAPLTD DETDSLFIIV
 DGSTVEVFAD GGYVSMASRV YFNNGPFSEF EVTTTGDASI IRQESHFPVD FSSVSLDIDD
 LTALMQFDEN EPHEGPVR

> RXA02063 (1-1227, translated) 409 residues
 MVKGVKGRPN VLAIVLAGGE GKRLFPLTED RAKPAVPFPG TYRLIDFVLS NLVNSGFLKI
 AVLTQYKSHS LDRHISLSWN VSGPTGQYIA SVPAQQRLGK RWFTGSADAI LQSLNLISDE
 KPDYVIVFGA DHVYRMDPSQ MLDEHIASGR AVSVAGIRVP REEATAFGCI QSDVDGNITE
 FLEKPADPPG TPDDPDMTYA SMGNYIFTTE ALIQALKDDE NNNSDHDMDG GDIIPYFVSR
 NDAHVYDFSG NIVPGATERD KGYWRDVGTI DAFYECHMDL ISVHPIFNLY NSEWPIHTTS
 EGNLPPAKFV RGGIAQSSMV SSGSIISAGT VRNSVLSNNV VVEEGATVEG AVLMPGVRIG
 KGAVVRHAIL DKNVVVRDGE LIGVDQVRDA QRFKVSAGGV VVVGKNQVV

> RXA02100 (1-918, translated) 306 residues
 IAGKAHPHDM GGKLMQEI VHFADQAGVRD RFLFLPDYDI NLASYLISGA DVWLNPNVRP
 QEASGTSQGMK AVMNGLTSL ISDGWDEMT KETGTWTIPT VESQDLECRD HLESQALYDL
 LENEVAPLFY KRDKNGIPQD WLDLVRESWP TLSPMVTSTR MVRDYTTQYY RPTKHQAEI
 AQPAEAADYA AWLEHIKAEW AGVKVSDLKI SESAITAQEL EVSVRVDSGS LNDDEFQAQA
 LFGALGHNGD IEDPEITVLT PRGDGAYAAK VSTDLPNGY ITARVVPNNR MLVSPAETRL
 ITYLEN

> RXA02113 (1-1206, translated) 402 residues
 LGRINAEQON LSEYLSDKLW YQDTADATDA VGDPLVAYFS MEFGIHPSLP IYSGGLGVLA
 GENMKSASDL GVPLIGVGLL YTHGYFTQSL SGDGWQEEY KYHDPALPI EAVKDKNGEQ
 VTVSVTPGA QEVKIALWVA NVGRIPLLLL DTNIEANPEE LRNVTDRLYG GDNEHRIKQE
 LVLGVGGVRA VNAFCEARGL KRSSVAHLNE GHAGFLTLE IRERIAEGME YPAAFEQVRA
 SNIFTTHTPV PAGIDRFDM MVRRLGGGQ PEDQQLCVGV PIEKALELGQ ESDPHRFNMA
 HMGLRASQHA NGVAKLHGEV SRDMFAGLYP GYEPREVPIG HVTNGVHLPT WVKPEMKELI
 DRVTTGGADLA VADSWSNPQA VESEKIWKVR NKFRADLVEV AR

> RXA02122 (1-699, translated) 233 residues
 MLHVMKPGSH AAAEKTQSTV VLLIRHGQTP TTGQVLPQGT PGLHLSDKGE EQAREVAQRL
 AEVPITAVYS SPMEQAQETA APTVSAHGLE LTVEPGLIEC DFGWTGRKL TELNALEEWK
 AVQKTPSTFR FPGGESFVEM QDRMVEAIGN IAQQHPGEIV AAFSHADTIK AAVAHFVGTP
 LDSFQRIFID TASSAVEFT GKSSGVSSHM LLTNSRTGSL GYLDRDKLPKA PQP

> RXA02140 (1-1077, translated) 359 residues
 VEQQNKRLGK RKALLGGVLG LGGLAMAGCE VAPPGGVLGD FLRMGWPDGI TPEAVAMGNF
 WSWVWAAWI IGIIMWGLFL TAIFAWGAKR AEKRGEGEFP KQLQYNVPLE LVLTVPIII

VMVLFFFTVQ TQDKVTALDK NPEVTVDVTA YQWNWKEFGYS EIDGSLAPGG QDYQGS DPER
QAAAEASKKD PSGDNPIHGN SKSDVSYLEF NRIETLGTTD EIPVMVLPVN TPIEFNLASA
DVAHSFWVPE FLFKRDAYAH PEANKSQRVF QIEEITEEGA FVGRCAEMCG TYHAMMNFEL
RVVDRDSFAE YISFRDSNPD ATNAQALEHI GQAPYATSTS PFVSDRTATR DGENTQNSA

> RXA02142 (1-651, translated) 217 residues
VTLANQTAIL DSVTSAVGNT GMAAPQRVAA LNRPNMVS VG TIVFLSQELM FFAGLFAMYF
VSRANGLANG SWGEQTDHLN VPYALLITVI LVSSSVTCQF GVFAAERGDV YGLRKWFLVT
IILGSIFVIG QGYEYITLVG HGLTIQSSVY GSAFFITTGF HALHVIAGVM AFVVVLMRIH
KSKFTPAQAT AAMVVSYYWH FVDVVWIGLF ITIYFIQ

> RXA02143 (1-888, translated) 296 residues
MMETNPQTPE GNSMAKPSAK KVKNNRRKVRV TVAGALALTI GLSGAGILAT AITPDAQVAT
AQRDDQALIS EGKDLYDVAC ITC HGVNLQG VEDRGPSLVG VEGEAVYFQV HSGRMPILRN
EAQAERKAPR YTEAQTALIA AYVAANGGGP GLVYNEDGTL AMEELRGYNY DGQITSADVA
RGDDLFR LNC ASCHNFTGRG GALSSGKYAP NLDAANEQEI YQAMLTGPQN MPKFSDRQLS
ADEKKDIIAF IKSTKETPSP GGYSLGSLGP VAEGLFMWVF GILVLVAAAM WIGSRS

> RXA02144 (1-1224, translated) 408 residues
MSNNNDKQYT TQELNAMSNE DLARLGTELD DVTIAYRKER FPIANDPAEK RAARAVTFWL
VLGIIGGLGF LATYIFWPWE YKAHGDEGLL AYTLYTPMLG ITSGLCILSL GFAVVLYVKK
FIPEEIAVQR RHDGPSEEV D RRTIVAL LND SWQTSTLGRR KLIMGLAGGG AVLAGLTIIA
PMGGMKNPW NPKEGPM DVQ GDGTLWTSGW TLVENDVKVY LGRDTAAIAE SHTDATGEHW
STTGVSRLVR MRPEDLAAAS METVFPLPAE MVNDGAEYDP AKDVYEHQMH SVHGPRNAVM
LIRLRTADAE KVIEREGQES FHYGDYYAYS KICTHIGCPT SLYEAQTNRI LCPCHQSQFD
ALHYGKPVFG PAARALPQLP ITVDEEGYLI AAGNFIEPLG PAFWERKS

> RXA02147 (1-1017, translated) 339 residues
MFGRRWVS VV ASCVIAS TLI LVP SHSGAEE VDQLIADIEH VSQETSAQNE EVKQLEIDIE
AREVTIKEVQ EQSVSYREAA DQASENVEAY RSEINRIAQA KYRGTVTDPL SIAVSAEDPQ
NVIDRMSYLS TLTKSTSDV V ESLNAET EKS AEA VYQANRT KAEAEFQLGQ LKVRQAELES
EKEALDGRKS EIRDRVDALT PQEREMWVAK NGPLDIDLTD LLGLSAATSG AVDAALSKLG
SPYGWGGIGP NEFDCSGLIY WAYQQMGKTL PRTSQAQ MAG GTPVSRDELQ PGDVIGYYPG
ATHVGLYIGD GKIVHASDYG IPVQVVS VDS APFYGARRY

> RXA02149 (1-969, translated) 323 residues
MPQKPASFAV GFDIGGTNMR AGLVDESGRI VTSLSAPSPR TTQAMEQGIF DLVEQLKAEY
PVGAVGLAVA GFLDPECEV V RFAPHL PWRD EPVREKLENL LGLPVRLEHD ANSAAWGEHR
FGAAQGADNW VLLALGTGIG AALIEKGEIY RGAYGTAP EF GHLRVVRGGR ACACGKEGCL
ERYCSGTALV YTARELASHG SFRNSGLFDK IKADPNSING KTITAAARQE DPLALAVLED
FSEWLGETLA IIADVLDPGM IIIGGGLSNA ADLYLDRSVN HYSTRIVGAG YRPLARVATA
QLGADAGMIG VADLARRSVV EAN

> RXA02175 (1-1293, translated) 431 residues
VATDNNKAVL HYPGGEFEMD IIEASEGNNG VVLGKMLSET GLITFDPGYV STGSTESKIT
YIDGDAGILR YRGYDIADLA ENATFNEVSY LLINGELPTP DELHKFNDEI RHHTLLDEDF
KSQFNVFPRD AHPMATLASS VNILSTYYQD QLNPLDEAQL DKATVRLMAK VPMLAAYAHR
ARKGAPYMY P DNSLNAREN F LRMMFGYPTE PYEIDPIMVK ALDKLLILHA DHEQNCSTST
VRMIGSAQAN MFVSIAGGIN ALSGPLHGGA NQAVLEMLD IKS NHGGDAT EFMNKVK NKE
DGVRLMGFGH RVYKNYDPRA AIVKETAHEI LEHLGGDDLL DLAIKLEEIA LADDYFISRK
LYPNVDFYTG LIYRAMGFPT DFFTVLF AIG RLPGWIAHYR EQLGAAGNKI NRPRQVYTGN
ESRKLVPREE R

> RXA02196 (1-693, translated) 231 residues
MIKAI FWDMD GTMVDSEPQW GIATYELSEA MGRRLTPELR ELTVGSSLPR TMRLCAEHAG
ITLSDADYER YRAGMFARVH ELFDES LVPN PGVTELLTEL KALEIPMLVT TINTERDLATR
SVAAGNEFF IGS IAGDEV P TAKPAPDMYL EAARRVG FDP SECLVFEDSY NGMLGAVTAG
CRVIGLHPEE VQAPEGVVPL RSLHGKNSFE GVTAEMVTAW YHQIEPAGVA K

> RXA02209 (1-1659, translated) 553 residues

VVPSIAGPKR PQDRILLSEA KEQFRKDLPT YTDDAVSVDT SIPATRMVNE GGGQPEGGVE
ADNYNASWAG SGESLATGAE GRPSKPVTV A SPQGGEYTID HGMVAIASIT SCTNTSNPSV
MIGAGLIARK AAEKGLKSKP WVKTICAPGS QVVDGYYQRA DLWKDLEAMG FYLSGFGCTT
CIGNSGPLPE EISA AINEHD LTATAVLSGN RNFEGRISPD VKMNYLASPI MVIAYAIAGT
MDFDFENEAL GQDQDGNDF LKDIWPSTEE IEDTIQQAIS RELYEADYAD VFKGDKQWQE
LDVPTGDTFE WDENSTYIRK APYFDGMPVE PVAVTDIQGA RVLAKLGDSV TTDHISPASS
IKPGTPAAQY LDEHGVERHD YNSLGSRRGN HEVMMRGTF A NIRLQNQLVD IAGGYTRDFT
QEGAPQAFIY DASVNYKAAG IPLVVLGGKE YGTGSSRDWA AKGTNLLGIR AVITESFERI
HRSNLIGMGV VPLQFPAGES HESLGLDGTE TFDITGLTAL NEGETPKTVK VTATKENGDV
VEFDAICPHR HPR

> RXA02213 (1-717, translated) 239 residues
VTESKNSFNA KSTLEVGDKS YDYFALSAVP GMEKLPYSLK VLGENLLRTE DGANITNEHI
EAIANWDASS DPSIEIQFTP ARVLMQDFTG VPCVVDLATM REAVAALGGD PNDVNPLNPA
EMVIDHSVIV EAFGRPDALA KNVEIEYERN EERYQFLRWG SESFSNFRVV PPGTGIVHQV
NIEYLARVVF DNEGLAYPDT CIGTDSHTTM ENGLGILGWG VGGIEAEAAM LGQPVSMILI

> RXA02245 (1-657, translated) 219 residues
MAQRTPLIAP SILAADFSRL GEQVLAVPDA DWIHVDIMDG HFVPNLSFGA DITAAVNRVT
DKELDVHLMI ENPEKWVDNY IDAGADCIVF HVEATEGHVE LAKYIRSKGV RAGFSLRPQT
PIEDYLLDLE HFDEVIVMSV EPGFGGQSF M PEQLEKVRTL RKVIDERGLN TVIEIDGGIS
AKTIKQAADA GVDAFVAGSA VYGAEDPNKA IQELRALAQ

> RXA02256 (1-1002, translated) 334 residues
MTIRVGINGF GRIGRNFFRA VLERSDDLEV VAVNDLTDNK TLSTLLKFDS IMGRLGQEEVE
YDDDSITVGG KRIAVYAERD PKNLDWAAHN VDIVIESTGF FTDANA AKAH IEAGAKKVII
SAPASNEDAT FVYGVNHESY DPENHNVISG ASCTTNCLAP MAKVLNDKFG IENGLMTTVH
AYTGDQRLHD APHRDLRRAR AA AVNIVPTS TGA AKAV ALV LPELKGKLDG YALRVPVITG
SATDLTFNTK SEVTVESINA AIKEAAVG EF GETLAYSEEP LVSTDIVHDS HGSIFDAGLT
KVS GNTVKV SWYDNEWGYT CQLLRLTEL V ASKL

> RXA02257 (1-1215, translated) 405 residues
MAVKTLKDLL DEGVDGRHVI VRSDFNVPLN DDREITDKGR IIASLPTLKA LSEGGAKVIV
MAHLGRPKGE VNEKYS LAPV AEALSDELGQ YVALAADVVG EDAHERANGL TEGDILLLEN
VRFDPRETSK DEAERTAF AQ ELAALAADNG AFVSDGFGVV HRAQTSVYDI AKLLPHYAGG
LVETEISVLE KIAESPEAPY VVVLGGSKVS DKIGVIEALA AKADKIIVGG GMCYTFLAAQ
GHNQQSLLQ EEMKATCTDL LARFGDKIVL PVDLVAASEF NKDAEKQIVD LDSIPEGWMS
LDIGPESVKN FGEVLSTAKT IFWNGPMGVF EFAAFSEGTR GIAQAIIDAT AGNDAFSVVG
GGDSAASVRV LGLNEDGF SH ISTGGGASLE YLEGKELPGV AILAQ

> RXA02258 (1-777, translated) 259 residues
MARKPLIAGN WKMNLDHQQ A IGTVQKLAFA LPKEYFEKVD VAVTVPFTDI RSVQTLVEGD
KLEVTFGAQD VSQHESGAYT GEVSASMLAK LNCSWVVVGH SERREYHNES DELVAAKAKA
ALSNGISPIV CVGEPLEIRE AGTHVEYVVE QTRKSLAGLD AAELANTVIA YEPVWAIGTG
KVASAADAQE VCKAIRGLIV ELAGDEVAEG LRILYGGSVK AETVAEIVGQ PDVDGGLVGG
ASLDGEAF AK LAANAASVA

> RXA02259 (1-2772, translated) 924 residues
VFKVVM TDFL RDDIRFLGQI LGEVIAEQEG QEVYELVEQA RLTSFDIAKG NAEMDSLQVQ
FDGITPAKAT PIARAFSHFA LLANLAEDLY DEELREQALD AGDTPPDSTL DATWLKLN EG
NVGAEAVADV LRNAEVAPVL TAHPTETRRR TVFDAQKWIT THMRERHALQ SAEPTARTQS
KLDEIEKNIR RRITILWQTA LIRVARPRIE DEIEVGLRYY KLSLLEEIPR INRDVAVELR
ERFGEVPLK PVVKPGSWIG GDHDGNPYVT AETVEYSTHR AAETVLKYA RQLHSLEHEL
SLSDRMNKVT PQLLALADAG HNDVPSRVDE PYRRAVHGVR GRILATTAEL IGEDAVEGVW
FKVFTPYASP EEFLNDALTI DHS LRESKDV LIADDRLSVL ISAIESFGFN LYALDLRQNS
ESYEDVLTEL FERAQVTANY RELSEAEKLE VLLKELRSPR PLIPHSDEY SEVTDRELGI
FRTASEAVKK FGPRMVP HCI ISMASSVTDV LEPMVLLKEF GLIAANGDNP RGTVDVIPLF
ETIEDLQAGA GILDELWKID LYRNYLLQRD NVQEVMLGYS DSNKDG GYFS ANWALYDAEL
QLVELCRSAG VKLRLFHGRG GTVGRGGGPS YDAILAQPRG AVQGSVRITE QGEIISAKYG
NPETARRNLE ALVSATLEAS LLDVSELTDH QRAYDIMSEI SELSLK KYAS LVHEDQG FID

YFTQSTPLQE IGSLNIGSRP SSRKQTSSVE DLRAIPWVLS WSQSRVMLPG WFGVGTALEQ
WIGEGEQATQ RIAELQTLNE SWPFFTSVLD NMAQVMSKAE LRLAKLYADL IPDTEVAERV
YSVIREEYFL TKKMFCVITG SDDLDDNPL LARSVQRRYP YLLPLNVIQV EMMRRYRKGD
QSEQVSRNIQ LTMNGLSTAL RNSG

> RXA02288 (1-846, translated) 282 residues
MSQVIPASSQ EKRRERIVSY VTRHGFARVE ALAELEFVSA MTIHRDLEAL AADNLVERIR
GGARSVSPSM SELAVEQRRH LHRTVKEALC TAAARLIPEG AVVAIDDSTT LESLVEKLPQ
RSPSALITHS LKTMADHRVR AGMSDIRLIA CAGLYFAETD SFLGKATSAQ LNELSADISF
VSTTAVRATG EVPALFHPDM EAADTKRALI GIGSVRVLV DSSKFGSAGV FKVASIEEFD
HIIIDQQCTR EQRDLLRNSR AQIHVIDHNG DEILDTPTEE DF

> RXA02292 (1-675, translated) 225 residues
MDNDFESIEK MSSGDWYVAT GAEREEVAQK TALLFHEYNO IGPTDPARTA EILRTVLNPA
SGTCTIKAPA IIEYGFNTTI GEHVFINFGL TILDIAPVRI GARSM LGPNC QLFTAGHPVD
DWEMRSGGWE NGAPISIGED TWLGGNVTVV GGVSIGDRCV IGAGPVVTKD IPDDSIAGVN
PARVVRKRDD SRLERSQLPE GASVDALGIL PTKSPRLSEN IAEKY

> RXA02322 (1-411, translated) 137 residues
MRIHDVYTHL SADNFPKAEH LAWKFSLAT DPVEVTPDVS EMIINRIIDN AAVSAASVLR
RPVTVARQQA QSHPREKGGK VFGISGSYSP EWAAFANGVA VRELDHFDTF LAAEYSHPGD
NIPPLLAVAQ AQRSSGR

> RXA02326 (1-816, translated) 272 residues
MLGRPTKVTP SSKVVGDLAL HLVGAGVDPA DFAADPQKYD IPDSVIAFLR GELGNPPGGW
PEPLRTRALE GRSEGKAPLT EVPEEEQAH L DADDSKERRN SLNRLLFPPK TEEFLEHRRR
FGNTSALDDR EFFYGLVEGR ETLIRLPDVR TPLLVRDLAI SEPDDKGM RN VVANVNGQIR
PMRVRDRSVE SVTATAEKAD SSNKGHVAA P FAGVVTVTV A EGDEVKAGDA VAIIEAMKME
ATITASVDGK IDRUVVPAAT KVEGGDLIVV VS

> RXA02327 (1-960, translated) 320 residues
LLATRVRSFA LKPAAEAVAK LTPELLSVEA WGGATYDVAM RFLFEDPWDR LDELREAMPN
VNIQMLLRGR NTVGYTPYPD SVCRAFVKEA ASSGVDIFRI FDALNDVSQM RPAIDAVLET
NTAFAEVAMA YSGDLSDPNE KLYTLDYYLK MAEEIVKSGA HILAIKDMAG LLRPAAVTKL
VTALRREFDL PVHVHTHDTA GGQLATYFAA AQAGADAVDG ASGTTVWHHL PSHPLSAIVA
AFAHTRRD TG LSLEAVSDLE PYWEAVRGLY LPFESGTPGP TGRVYRHEIP GGQLSNLRAQ
ATALGLADRF ELIEDNYASR

> RXA02328 (1-1383, translated) 461 residues
ASEAVRIGTE GSPVKAYLDI DEIIGAANKV KADAIYPGYG FLSENAQLAR ECAENGITFI
GPTPEVLDLT GDKSRVATA KKAGLPVLA E STPSKNIDEI VKSAEGQTY P IFVKAVAGGG
GRGMRFVASP DELRKLATEA SREAEAAFGD GAVYVERAVI NPQHIEVQIL GDHTGEVVHL
YERDCSLQRR HQKVVEIAPA QHLDPELRDR ICADAVKFCR SIGYQGAGTV EFLVDEKGNH
VFIEMNPRIQ VEHTVTEEV T EVDLVKAQMR LAAGATLKE L GLTQDKIKTH GAALQCRITT
EDPNNGFRPD TGTITAYRSP GGAGVRLDGA AQLGGEITAH FDSMLVKMTC RGSDFETAVA
RAQRALAEFT VSGVATNIGF LRALLREEDF TSKRIATGFI ADHPHLLQAP PADDEQGRIL
DYLADVTVNK PHGVRPKDVA APIDKLPNIK DLPLPRGSRD R

> RXA02329 (1-603, translated) 201 residues
TATRQSRKGE ISSWKAFAPA FAGKMAI EAM DRAMRGE GSP APIWEGEDGV IAWLLSGKDH
VYHVPLPEHG EPKLGILETY TKEHSAEYQS QAPIDLARRM KPLVDAAGGT EHIAEIVLRT
SHHTHYVIGT GANDPQKMDP QASRETL DHS IMYIFAVALQ DGVWHHEFSY TRKRSTRPET
VELWHKIRTV EDPEWTRRYH S

> RXA02332 (1-1143, translated) 381 residues
MSDSQVRKGL NGVISDYTSI SKVMPESNSL TYRGYAVEDL VENC SFEEVI YLLWFGELPT
TEQLRTFN TT GRSYRSLDAG LISLIHSLPN TCHPMDVLRT AVSYMGT FDP DPFTRDADHI
RSIGNHLLAQ LPMVVAMDIR RRS GEEI IAP DHNKG IASNF LSMVFGNDDG SVANSADDIR
DFERSLILYA EHSFNASTFS ARVISSTRSD TYSAITGAIG ALKGPLHGGA NEFVMHTMLD
IDDPNNAADW MGKALDRKER IMGFGHRVYK NGDSRVPSME KSMRSLAARH RGQKWVHMYE

SMQEVMEART GIKPNLDFPA GPAYYMLGFP VDFFTPLFVL ARVSGWTAHI VEQFENNALI
RPLSAYNGVE EREVVPISER T

> RXA02333 (1-219, translated) 73 residues
EIGYNAVIYP VTTLRIAMGQ VEQALAEIKE HGTQEGWLDL MQHRSRLYEL LRYEDYNVFD
QHIFTYRKGE NNE

> RXA02379 (1-705, translated) 235 residues
MRKHRWANAA GLYADTVAES TIGLILAQMH MHATTRLAKS WSVRPEVENN KSWLHDNKT
AILGAGGIGV RLLEMLKPFN VKTIAVNNSG RPVEGADETF AMDKAEHVWA EADVFLILP
LTDATYQIVN AETLGKMKPS AVVVNVGRGP LINTDDLVDL LNNGTIAGAA LDVTDPEPLP
DSHPLWEMDN VVITPHTANT NERIRALTGE LTLRNIELFE AGEQMATEVD VVAGY

> RXA02399 (1-1296, translated) 432 residues
MSNVGKPRTA QEIQDQWDTN PRWNGITRDY TADQVADLQG SVIEEHTLAR RGSEILWDAV
TQEGDGYINA LGALTGNQAV QQVRAGLKAV YLSGWQVAGD ANLSGHTYPD QSLYPANSVP
SVVRRINNAL LRSDEIARTE GDTSDVNWV PIVADGEAGF GGALNVYELQ KAMIAAGAAG
THWEDQLASE KKCGLHGGKV LIPTQQHIRT LNSARLAADV ANTPTVVIAR TDAEAATLIT
SDVDERDQPF ITGERTAEGY YHVKNLEPC IARAKSYAPY ADMIWMETGT PDLELAKKFA
EGVRSEFPDQ LLSYNCSPSF NWSAHLEADE IAKFQKELGA MGFKFQFITL AGFHSNLNYGM
FDLAYGYARE GMTSFVDLQN REFKAAEERG FTAVKHQREV GAGYFDQIAT TVDPNSSTTA
LKGSTEEGQF HN

> RXA02404 (1-2136, translated) 712 residues
MQVAKVLYDF VTEAVLPRVG VDAEKFWSGF AAIARDLTPR NRELLARRDE LQMLIDDYHR
NNSGTIDQEA YEDFLKEIGY LVEEPEAAEI RTQNVDTAIS STAGPQLVVP ILNARFALNA
ANARWGSLYD ALYGTNAIPE TDGAEGKKEY NPVRGQKVIE WGREFLDSV PLDGASHADV
EKYNITDGKL AAHIGDSVYR LKNRESYRGF TGNFLDPEAI LLETNGLHIE LQIDPVHPIG
KADKTGLKDI VLESATITIM DFEDSVAADV AEDKTLGYSN WFGLNTGELK EEMSKNGRIF
TRELNKDRVY IGRNGTELVL HGRSLLFVRN VGHLMQNPSI LIDGEEIFEG IMDAVLTTVC
AIPGIAPQNK MRNSRKGSYI IVKPKQHGE EVAFTNELFG RVEDLLDLPR HTLKVGVMDL
ERRTSVNLDL SIMEVADRLA FINTGFLDRT GDEIHTSMEA GAMVRKADMQ TAPWKQAYEN
NNVDAGIQRG LPGKAQIGKG MWAMTELMAE MLEKKIGQPR EGANTAWVPS PTGATLHATH
YHLVDVFKVQ DELRAAGRRD SLRNILTIST APNTNWSEEE KKEEMDNQC SILGYVVRWV
EHGVGCSKVP DIHDIDLMD RATLRISQML LANWIRHDV SKEQVLESLE RMAVVVDKQN
AGDEAYRDMA PKYDASLAFQ AAKDLIFEGT KSPSGYTEPI LHARRREFKA KN

> RXA02414 (1-747, translated) 249 residues
MSYNPYNNT NFSTTGAFQP AGGPVKPWNK PDASLNQQLK NKSRTVTLT IAIGYVVVVI
AVHLASIVIA LLTGFNLTNF GIHPLDTSAL WGIFTSPLLH GSFSHLIGHT VPGFIFSFLI
GMSGKRVFWE VTIIAGLIGG LGTWIFGGIG TNHIGASGLI YGWLGYLIVR GIFNKDIKQF
LLGIVLAFIY SGLFWGLLPT QIGVSWQGHF FGALGGIGAG AFIASDDPAA LKAKKQKKL
EKQQRQRL

> RXA02435 (1-558, translated) 186 residues
VTDNLGSTSI GDAWILYAPL MDDGGFGPLR AIGGMFLHIG PGHMLNLVL LWLLGREIER
DFGSALFTAM YFVGIGGASA AVIWMDDPYSP TAGASGAIYA MMAILVGLFV LRSADIRAPL
ILIAINIAYT LMSTNVSLWG HLGGLITGAL ITWPMVKAKT QRTRWIIVLI GFAVVVAIVI
LGIDRV

> RXA02440 (1-840, translated) 280 residues
MVSHGAPGDT FWDLVKRGAE DAAQKDNVEL RYSSNPEIPE QSNLVQNAID SRVDGIAMTM
PNAQSLGPVA QKAVDAGIPV VGLNAGMNEY QDYGMTGFFG QDESAGASA GARLAENNAQ
KVLGVIHEQG NSSQEARCGG VSEGLGKQVE TLYVNGMDLT SVNSTLQAKL AQDRSIDWV
GLQAGVSMAL SDAADAANSE VKIATFDTNA QLMTAIRDGK IQFAIDQQPY LQGYMAVDSL
WLAHRNGTTV GGRPVYTG P AIVDATNVDV IAEAVGEGLR

> RXA02453 (1-753, translated) 251 residues
MKSIFISGAA NGIGKAVALK FLHEGWLVGA YDLAEITYSH PNLRWGYLNV RQSESWDKAL

EDFATHTGGT IDVVDNNAGV IIEGPLQDAE EGSVDKLLAI NVNGVTLGAR AAHPYLARTP
GAQLLNMSA SAVYGGPQIA VYSASKFYVA GLTEALNLEW RKDDIRVVDV WPLWAKTDLV
NGVKAKSLKR LGVRITPEQV AQAVWDAVHP KSRWAKGKVH HGVSKLDKAL YLMKSLSPDR
VAMCFARLIA G

> RXA02474 (1-774, translated) 258 residues
MSKVAMVTGG AQQIGRGISE KLAADGFDIA VADLPQQEEQ AAETIKLIEA AGQKAVFVGL
DVTDKANFDS AIDEAAEKLK GFDVLVNNAG IAQIKPLLEV TEEDLKQIYS VNVFSVFFGI
QAASRKFDL GVKGKIINAA SIAAIQGFPI LSAYSTTKFA VRGLTQAAAQ ELAPKGHTVN
AYAPGIVGTG MWEQIDAELS KINGKPIGEN FKEYSSSIAL GRPSVPEDVA GLVSFLASEN
SNYITGQVML VDGGMLYN

> RXA02480 (1-849, translated) 283 residues
LSIGALSMAY WAHMFVVTGA VLLPFFSEMT FLISVPTGVK FFWVGTMMWK GHITWETPMI
WSVGFMATFL FGGLTGIMLA SPPLDFHLAD SYFLIAHFHY TLFGTVVFAS CAGVYFWFPK
MTGRMMDERL GKIHFVLTFTV GFHGTFLIQH WVGNMGMPPR YADYLDSDGF TIYNQISTVF
YFLLGLSVIP FIWNVFKSWR YGELVTVDLP WGYGNSLEWA TSCPPPRHNF ASLPRIRSER
PAFELHYPHM IERMRAEAHT GHDDINAPE LGTAPALASD SSR

> RXA02481 (1-612, translated) 204 residues
MLTGFLTPGG AADLGGPCTP HCLTQFTPOA LVLTGCLSGV GATGIGSVAS AINMLTTILC
LRAPGMTMFR MPIFTWNIFV VSVLALLIFP LLLAAALGVL YDRKLGGHLY DPANGGSLW
QHLFWFFGHP EVYVLALPFF GIVSEIIPVF SRKPMFGLRR PDLRNLVHWC TVHGCVGSPH
VRYWRSFASV LLLHDVPDFG SYRR

> RXA02485 (1-1101, translated) 367 residues
LDSSLAQEIA AIDGVELDSE VTFADLTTLR IGGKPRSAVR CQTTEALVSA IKLLDDASLP
LLIVGGGSLN VVADGDLVDI AVIETDDVS INLTDGLLTA DAGAVWDDV HLSVDAGLGG
IECLSGIPGS AGATPVQNVG AYGTESVDVL TRVQLDRTT HQVSWVDASE LDLSYRYSNL
KFTNRAVLA IELQLLDGL SAPLRFGLG RRLAISEAEP HPRRPVRMVR DAVLELRAK
GMVVEHTDHD TWSAGSFFTN PIVDPALADA VFEKVGEPTM PRFPAGDGKE KLSAAWLIER
AGFKKGHPGA GAKASLSTKH TLALTNRGDA RASDLVALAK EIRDGVLETF GVTLVPEPVW
IGISIDD

> RXA02492 (1-717, translated) 239 residues
MTNGKLILLR HGQSEWNASN QFTGWVDVNL TEQGEAEAKG VLPGVVYTSI LRRAIRTANI
ALNAADRHWI PVIRDWRLE RHYGALQGLD KAATKEKYGD DQFMEWRRSY DTPPELADD
AEYSQANDPR YADLDVVPRT ECLKDVVVR VPYFEEIILP RAKKGETVLI AAHNSLRAL
VKHLDGISDA DIAELNIPTG IPLVYEIAED GSVVNPGGTY LDPEAAAAGA AAVANQGNK

> RXA02528 (1-975, translated) 325 residues
MSAKSSLKEV AELAGVGYAT ASRALSGKG VSPQTREKVQ AAAKELNYVP NQLAKALREH
RSALVGIVP DLSNEYSES LQTIQDLKA AGYQMLVAEA NSVQAQDVVM ESLISIQAG
IIHVPVVGSI APEGIPMVQL TRGELGPGFP RVLCDDEAGF FQLTESVLGG SGMNIAALVG
EESLSTTQER MRGISHAASI YGAEVTFHFG HYSVESGEEM AQVVFNNGLP DALIVASPR
MAGVMRAFTR LNVVRPHDVV IGGYDDPEWY SFVGAGITTF VPPHEEMGKE AVRLLVDLIE
NPELPTGDVV LQGQVILRGS STHSG

> RXA02539 (1-1518, translated) 506 residues
MTVYANPGTE GSIVNEYKRY ENYIGGKWVP PVEGQYLENI SPVTGEVFCF VARGTAADVE
LALDAAHAAA DAWGKTSVAE RALILHRIAD RMEEHLEEIA VAETWENGKA VRETLAADIP
LAIDHFRYFA GAIRAQEDRS SQIDHNTVAY HFNEPIGVVG QIIPWNFPIL MATWKALAP
AAGNAIVMKP AEQTPASILY LINIIGDLIP EGVNLIVNGL GGEAGAALSG SNRIGKIAFT
GSTEVGKLIN RAASDKIIPV TLELGGKSPS IFFSDVLSQD DAFAEKAVEG FAMFALNQGE
VCTCPSRALV HESIADEFLE LGVKRVQNIK LGNPLDTETM MGAQASQEQM DKISSYLKIG
PEEGAQTLTG GKVNKVDGME NGYYIEPTVF RGTNDMRIFR EEIFGPVLSV ATFSDFDEAI
RIANDTNYGL GAGVWSRDQN TIYRAGRAIQ AGRVWVNQYH NYPASAFGG YKESGIGREN
HLMMLNHYQQ TKNLLVSYDP NPTGLF

> RXA02551 (1-360, translated) 120 residues
 MSVCEAHNPE NYSTGGGNII GGVVSPTLAA SEWGWQVDPL GLRIVLNYYW ERWQKPLFIV
 ENGLGAKDVL IDGPSGPTVN DDYRIKYLDD GSGGILKRYK KKSFDWCRDI IATNGESLES

> RXA02556 (1-1158, translated) 386 residues
 LIVSTQIPITD RSALSAEHAE VIKATLPLVG GKINEITPVF YNKMFAAHPE LIANTFNNGN
 QKQGDQKAL AASIATFATM LVTPDAPDPV QLLSRIGHKH VSLGITADQY DIVHEHLFAA
 IVEVLGAETV TAPVAEAWDA VYWIMANVLI GFENNLYASN DLEPGDVFRE VTVTAKKQLS
 ATVWEYTLAG ELVAPEPGQY TSIGVVLDG ARQLRQYSLG GSDTEYRIA VEDNGEVSGF
 LRDRVSVGDK IEATIAAGDL VLNKDTNPVV LISQGIGSTP MVGMLAGMNP ERDVVVLHAD
 QAESTYAQVE EVQGLVEKLP KAAFEIFYRD NDQWLEVAGR IPGASVYLC GGVEFLKNVR
 EQIEALDEQP RDVNFELFAP NDWLIS

> RXA02560 (1-822, translated) 274 residues
 MQGNSLNLAD NSERKKPMPS PGELLAARYG QPATWTPPPQW NETLDVIHQH RSVRRWLDKP
 VDDDTIRTII SAAQSAGTSS NKQVISVIVV KDPELRKGLA GITRQMFPHL EQVPAVLIWL
 IDYSRISAVA AREDLPTGAL DYLDAAWGF LDAGIAAQNA AIAAESLGLG TLYLGSVRND
 AEAVHKLGL PPEIVPVVGL EMGHADPPPEP AGIKPPLPQE AIVHWDTYTE KNLELIDSVD
 RALDTYYSRY GQHQLWSKQT AHRAASKRCY KNQE

> RXA02572 (1-645, translated) 215 residues
 AVAEICEPTG ADAVALVDAL GHDDRIGRKF LGAGLGFGGG CLPKDIRAFM ARAGELGADQ
 ALTFLREVDS INMRRRDRVV QLAKEMCGGS LLGKRVTVLG AAFKPNSDDV RDSPALSVAG
 SLSLQGAASV VYDPEAMDNA RRVFPTLSYA SSTKEALIDA HLVVLATEWQ EFRDLDPEDA
 GGVVEKRAII DGRNVLDVAK WKAAGWEMEA LGRNL

> RXA02596 (1-489, translated) 163 residues
 PVVYTGPLDL YFNIAEGKLG WRTLDFETEV VETGDFQGT VMNYNDADVP FTRIHEFRHF
 HPERDDSYPK DKTIVIMREFS RFADNEDEPY YPINTPDDRD MLKQYRLLA EEAANNKVLF
 GGRLGTYQYL DMHMAIGSAL SMFDNKLVPF FEETPLEQE RGH

> RXA02611 (1-1752, translated) 584 residues
 DAWSDPMATW RHAITTKIEA GQGSDELYND FEHGAQLFER AAENLSKEDR TALFDVASSL
 RRGGDVRARL APALTASVTH LLELNPLREL VTMGENLQVR VERRAALVNS WYELFPRSTG
 GWDESGTPVH GTFATTAQAL ERVAKMGFDT VYFPIHPIG EVNRKGRNNT LTPEPHDVGS
 PWAIGSKDGG HDATHPRLGT IEDFQALLAR ARELNLEVAL DLALQAAPDH PWAQEHREFF
 TVLADGTIAY AENPPKQYQD IYPINFNDNA PKIYEEVYRV VKFWVDLGV TFRVDNPHTK
 PANFWQWLIS AIHKSNEVI FLAEASTRPA RLYFLSKIGF SQSYTYFTWK VTNEELTEFA
 TEIAPMADIS RPNLFVNTPD ILHASLQHG RAMFAIRAL AATMSPVWGV YSGYELFEHE
 AVKPGSEYEL DSEKYLRLPR DFEGALERGD SLEDYIALLN QIRANPALQ QLRNIHFHEA
 DNDQIIAYSK VDALTGNTVL IVVNLDPRA REATVRLDLG ALGLEAGAQF EVRDAITGSR
 YLWSETNFVR LEPLRDVAHI FVLPELPASR RERLAWREIK TYRA

> RXA02612 (1-2193, translated) 731 residues
 MTVPDASHIT IPEADLARLR HCNHHDPHGF YGWHETEAGS VIRTRQVGAT QVNLLIDDT
 HVMTPIGDDI FAIDLGHRR ADYRLEVTPW DQEPQVKADP YYFLPTVGEM DIYLFSEGRH
 ERLWEILGAN IKTYQTALGT VRGTAFTVWA PNAIGCAVVG GFNGWNASQH PMRSMGSGSL
 WELFIPGIEE GEVYKFAVQT REGQRRDKAD PMARRAELAP ATGSIVASSE YQWQDSEWLR
 ERSQTDLASK PMSVYEVHLG SWRWGKNYED LATELVYVA DLGYTHVEFL PVAEHFPFGS
 WGYQVTGYA PSTRWGTPDQ FRALVDAFHA RGIGVIMDWV PAHFPKDDWA LARFDGEALY
 EHPDWRRGEQ KDWGTLVDFD GRNEVRNFLV ANALYWIEEF HIDGLRVDV ASMLYLDYSR
 EHGEWEPNIY GGRENLEAVQ FLQEMNATVL RLHPGALTIA EESTSWPGVT APTWDGGLGF
 SLKWNMGWMH DTLEYFSKNP VHRAFHSEL TFSLVYAFSE RFVLPISHDE VVHGKGSWLD
 RMPGDTWNKA AGLRTFLAYM WSHPGKKLLF MQQEFQREE WAEGQGLPWD IVDGWQGEYH
 EAIRTLTRSL NGVYSDSPAL HTQDFTGEGF TWNKGDATN NILAFTRFGS DGSQMLCVFN
 LSGTSQPEYQ LGVAAGGEWK LVLNTDDAEF LGAENDIATS VQAAATPRDN FAYSLSLHVP
 AMSAQFYSLO K

> RXA02621 (1-819, translated) 273 residues
 MSELICGPAI LFAPAGRAEI IPKAASKADM VIIDLEDGAG EVDREVAYRN IRESGLDPKR

TIVRTVGPSD PHFLADVEMV KSTDFTLVMV PKLLGSVP EE LDGLNIIAMI ETPQAATSIP
QIAADPKVVG MFWGAEDLTH LLGGTHSRFL GDESNEGSYR DTMRLTRALM HLHAAANGKF
TIDAIHADFH DEEGLYLEAV DAARTGFACT ACIHPKQIEI VRRAYRPEAN QLEWAKKVVE
EAENHPGAFK LDGQMIDAPL ISQARMVISR QPA

> RXA02640 (1-1527, translated) 509 residues
MRISKANAYV AAIDQGTST RCIFIDAQ GK VVSSASKEHR QIFPQQGWVE HDPEEIWDNI
RSVVSQAMVS IDITPHEVAS LGVTNQRETT VVWDKHTGEP VYNAIVWQDT RTSDICLEIA
GEEGQEKWLD RTGLLINSYP SGPKIKWILD NVEGARERAE KGDLLFGTMD TWVLWNLTGG
VRGDDGDDAI HVTDTVNASR TLLMDLRTQQ WDPELCEALD IPMSMLPEIR PSVGEFRSVR
HRGTLADVPI TGVLDGQQA LFGQGGFHEG AAKNTYGTGL FLLMNTGTSL KISEHGLLST
IAYQREGSAP VYALEGSVSM GGSLVQWLRD NLQLIPNAPA IENLAREVED NGGVHVVPF
TGLFAPRWRP DARGVITGLT RFANRKHIAV AVLEANAFQT REVVDAMAKD AGKALESRLV
DGAMVENDLL MQMQADFLGI DVQRLEDVET TAVGVAFAG LGSGFFKTTD EIEKLIIVKK
VWNPDMSSEE RERRYAEWNR AVEHSYDQA

> RXA02642 (1-498, translated) 166 residues
MTESKNYDLI VVGSGLFGLT VAERAASQLG KKVLIERRS HLGGNAYSEA EPETGIEIHK
YGAHLFHTSN TRVWEYVNQF TSFTGYQHRV FAMHNGTAYQ FPMGLGLINQ FFGKYSPDE
ARELIKEQSA EIDSSDATNL EEKAISLIGR PLYEAFIRDY TAKQWQ

> RXA02654 (1-885, translated) 295 residues
MISLLNDPRT LFPKVDPPKQ SQPEPGLDIK LSPQADIGLS SYQSGRLKG RKALITGGDS
GIGAAVAIAY AREGADVAIA YLPEEQADAD RVLQAIETG QKAFSFPGLD RDPEYCRSLV
QETVNALGGL DILVNNASRQ VWAPGLTEIT DENFDQTLQV NLYGSFRVTK AAIPHLKPGS
SIIFTSSIQA YQPSETLLDY AMTKAALNNL SKGLASSLIG DGIRVNSVAP GPFWTPLQPS
HGQPQEKIEG FGQHAPIGRA GHPVELAGAY VFLASDEASY VVGETLGVTG GTPTP

> RXA02666 (1-768, translated) 256 residues
MSSTRIPVIA LLAAAGRGTR LGGPIPKAFV TLRETTLLER SLQAMLTSES VDEIIILVSP
DMETYARDLL RKRGLNDPE GVRVRLVHGG GERADSVWAG LQAISLDDAT PDAIVLIHDS
ARALTPPGMI ARVVRKVHEG ATAVIPVLPV SDTIKRVSPD GGVVVDTPNR AELRAVQTPQ
GFLSELVAA NEKFFADPNP GFIPDDASL MEWYGADVVC VQGDPMFAKV TTPIDMMLAQ
RITDEAEPTI FEVPGD

> RXA02675 (1-363, translated) 121 residues
ILMTGMRHEN FGIMIARGDL AVELGFDRMA EVPQLIMALA EAAHVPTILA TQVLENMAKN
GLPSRAEITD AAMALRAECV MLNKGPHIND AIKVLTEMSR KLGASQRKSR LLLRKVKSW
E

> RXA02694 (1-942, translated) 314 residues
MKETVGNKIV LIGAGDVGA YAYALINQGM ADHLAIDID EKKLEGNVMD LNHGVVWADS
RTRVTKGTYA DCEDAAMVVI CAGAAQKPGE TRQLQVDKNV KIMKSIVGDV MDSGFDGIFL
VASNPVDILT YAVWKFSGLE WNRVIGSGTV LDSARFRYML GELYEVAPSS VHAYIIGEHG
DTELPVLSSA TIAGVSLSRM LDKDPELEGR LEKIFEDTRD AAYHIIDAKG STSYGIGMGL
ARITRAILQN QDVAVPVSA LHGEYGEEDI YIGTPAVVNR RGIRRVVELE ITDHEMERFK
HSANTLREIQ KQFF

> RXA02695 (1-1422, translated) 474 residues
MNEFDQDILQ EIKTELDELI LELDEVQTTH SEAIGQVSPT HYVGARNLMH YAHLRTKDLR
GLQQRLLSSVG ATRLTTTEPA VQARLKAARN VIGAFAGEGP LYPPSDVVDA FEDADEILDE
HAEILLGEPL PDTSPCIMVT LPTEAATDIE LVRGFAKSGM NLARINCAHD DETLVWKQMD
NVHTVAEEVG REIRVMDLA GPKVRTGEIA PGAEVGRARV TRDETGKVLV PAKLWITAHG
SEVPAPESL PGRPALPIEV TPEWFDKLEI GSVINVPDTR GSRAFTVTR VFDGAVLAEG
PQKAYISNGT LLEHNYDRSR VYGIPAVVQR INLKVGDRLI LTDEELTYDP SLGSGRTPRI
SCTLPQAVDA IKVGHVFLFD DGAIAAVCID KTSTADGHND VELEVTHARP QGVNLAAYKG
INLPDSELPL PSLTEEDLQH LRFVVKYADI AAISFIRNVA DVEYLLQALA DIGD

> RXA02729 (1-744, translated) 248 residues

MDSPMSNSTG TDIVVVGSI ADLTAKVQRH PEPGETLLGS GGTVSAGGKG ANQAVAAAQL
GAKVTMIGAV GTDQMAGEAL THLRQSGADM SAIATVDGPT GLAIITVSDD GENTIIVIPG
ANASVTAEFV DKHSQLIENA GIVLLQGEIP ADGFERAVDL SQGRVVINLA PVVPVGHQDL
RRADPLLNE HEGALVLDML GTPATTSDPQ SLVTELLEQG FTSVVMTLGA EGALVGTPGQ
LTAIPTPK

> RXA02730 (1-1038, translated) 346 residues

MATEKFRPTL KDVARQAGVS IATASRALAD NPAVAASTRE RIQQLASDLG YRANAQARAL
RSSRSNTIGV IVPSLINHYF AAMVTEIQST ASKAGLATII TNSNEDATTM SGSLEFLTSH
GVDGIICVPN EECANQLEDL QKQGMPPVVLV DRELPGDSTI PTATSNPQPG IAAAVELLAH
NNALPIGYLS GPMdTSTGRE RLEDFKAAKA NSKIGEQLVF LGGYEQSVGF EGATKLLDQG
AKTLFAGDSM MTIGVIEACH KAGLVIGKDV SVIGFDTHPL FALQPHPLTV IDQNVEQLAQ
RAVSILTELI AGTVPSVTKT TIPTALIHRE SIINSTLRKK DGLPNE

> RXA02737 (1-1542, translated) 514 residues

VSTNTTPSSW TNPLRDPQDK RLPRIAGPSG MVIFGVTGDL ARKKLLPAIY DLANRGLLPP
GFSLVGYGRR EWSKEDFEKY VRDAASAGAR TEFRENVWER LAEGMEFVRG NFDDDAAFDN
LAATLKRIDK TRGTAGNWAY YLSIPPDSTF AVCHQLERSG MAESTEEAWR RVIEKPFHG
NLESAHELNQ LVNAVFPES VFRIDHYLGK ETVQNILALR FANQLFEPLW NSNYVDHVQI
TMAEDIGLGG RAGYYDGIGA ARDVIQNHLL QLLALVAMEE PISFVPAQLQ AEKIKVLSAT
KPCYPLDKTS ARGQYAAGWQ GSELVKGLRE EDGFNPESTT ETFAACTLEI TSRRWAGVPF
YLRTGKRLGR RVTEIAVVFK DAPHQPFDDG MTVSLGQNAI VIRVQPDGEV LIRFGSKVPG
SAMEVRDVNM DFSYSESFTE ESPEAYERLI LDALLDESSL FPTNEEVELS WKILDPILEA
WDADGEPEDY PAGTWGPKSA DEMLSRNGHT WRRP

> RXA02738 (1-1080, translated) 360 residues

MSHIDDLAQL GTSTWLDDLS RERITSGNLS QVIEEKSVVG VTTNPAIFAA AMSKGDSDYA
QIAELKAAGA SVDQAVYAMS IDDVARNACDL FTGIFESSNG YDGRVSIEVD PRISADRDAT
LAQAKELWAK VDRPNVMIKI PATPGSLPAI TDALAEGISV NVTLIFSAR YREVIAAFIE
GIKQAAANGH DVSKIHSVAS FFVSRVDVEI DKRLEAIGSD EALALRGKAG VANAQRAYAV
YKELFDAEAL PEGANTQRPL WASTGVKNPA YAATLYVSEL AGPNTVNTMP EGTIDAVLEQ
GNLHGDTLN SAAEADAVFS QLEALGVDLA DVFQVLETEG VDKFVASWSE LLESMEARLK

> RXA02739 (1-2100, translated) 700 residues

LTTTLTSPLE QALTVRNYP DWSDVDTKAV DTVRVLAADA VENCSGSGHPG TAMSLAPLAY
TLYQVRMVND PQDTNWAGR RFVLSCGHSS LTQYIQLYLG GFGLEMDDLK ALRTWDSLTP
GHPEYRHTKG VEITTGPLGQ GLASAVGMAM AARRERGLFD PTAAEGESPF DHHIYVIASD
GDLQEGVTSE ASSIAGTQQL GNLIVFWDN RISIEDNTEI AFNEDVVARY KAYGWQTIEV
EAGEDVAAIE AAVAEAKKDT KRPTFIRVRT IIGFPAPTMM NTGAVHGAAL GAAEVAATKT
ELGFDPEAHF AIDDEVIAHT RSLAERAAQK KAAWQVKFDE WAAANPENKA LFDRLNSREL
PAGYADELPT WDADEKGVAT RKASEAALQA LGKTLPELWG GSADLAGSNN TVIKGSPSFG
PESISTETWS AEPYGRNLHF GIREHAMGSI LNGISLHGGT RPYGGTFLIF SDYMRPAVRL
AALMETDAYY VWTHDSIGLG EDGPTHQVE TLAALRAIPG LSVLRPADAN ETAQAWAAL
EYKEGPKGLA LTRQNVPLVE GTKEKAAEGV RRGYVLEVEG SKETPDVILM GSGSEVQLAV
NAAKALEAEG VAARVSVPC MDWFQEQDAE YIESVLPAAV TARVSVEAGI AMPWYRFLGT
QGRAVSLEHF GASADYQTLF EKFGITTDV VAAAKDSING

> RXA02740 (1-930, translated) 310 residues

LDTIKAYIAL TKPRVIELL VATIPTMLQA ERGENNIVLI LLTVFGGWMG AAAANTFNMV
ADSDIDQRMG RTRARPLVRH TVSNRDASIF AWWLTVASF WLWLLCDSML AGIFVLITIF
FYIFVYTKWL KRRTHMNIVW GGAAGCMPVL VGWAVIVDQF EPGVPQQWWQ AIVLFMVIFF
WTPPHTWALA MKYREDYKAA GVPMLPVVRT PVQVTAQIVW YSVATVLTTF LLIPATGWIY
AAIAVISGVT FLFMAIKLHL GIKNGGKVKP LKLFILSNNY LAVLFVALSV DAVLGLETIG
EMLGWTTTTF

> RXA02741 (1-966, translated) 322 residues

MKAILVSRGT GPEVLEFTDT DAPKPTDDQV LVEVDMAGVN FIDTYRQGE YHARLPFIPG
FEGTGRVLED PQGLIAAGTK VAWCDAMGSY AQQVCVPRDR LVAVPEGVSS EVAASMLMQG
ITAHYLTNGV YELEEGDSCL ITAGAGGVGL LATQMAAAKG VRVYSVSTD EKAELALDAG
AYEVFRYSDN LAEQVRRHNG GRGVDVVYDG VGQSTFNESL EAVRPRGTVC LFGAASGPVE

PFDPLLNTH GSIFLTRPSI GAWTSEEGER AKRAQAVTQA IVEGTLRVRV TGTYSLADAY
IAHRDLQARS TSGSLVLEIP KD

> RXA02743 (1-1038, translated) 346 residues
VSTSDAPSNN PVELKPITFW APTIKVQRIL ALLLLIFQGG ITVTGSIVRV TSGSLGCDTW
PLCHEGSLVP VAGAAPWIHQ AVEFGNRMLT FVLAAAALAL FIAVLGAKRR REILVHSFIQ
GLGIILQAVI GGITVLVDLH WYAVALHFLP SMILVFMAAI LYTRIGEPDD GEITTTFTPTW
IRNVAVIGAV ALSVVLITGT MTTGAGVHSG DASITMDDRL DVSIDLMAHI HGYSMYIYLF
FTLIVVAGLY KAKTTKHNKQ LGLMLILFIL IQAGIGILQY RMGVPRWSIP FHIAMSSVVV
AFTSLLWAQG RIRVGKATV TGSVDGDIKN EIITNPFEEK SKQPVK

> RXA02797 (1-903, translated) 301 residues
MNNRIVVVGs INADLNLVD RHPAPGETLL GSGGHITAGG KGANQAVAAA LQADVAFVG
AVGKDPYAAP ALEFLRSSGV DLTAVSEVDD TTGLAVITVA KDGENNIVVI PGANSLVNCD
YVSSQSALLA EAGILLQGE IPADGFKEAI HHTMGRVVVN LAPVIEVEKS ALLEADPIIA
NEHEAGLILD QFGAGIDSMD PHELAQALLD AGFASVVLTL GSAGALVADA TGITDIATPT
VQAVDTTGAG DAFAGAFCAR LIKGD SLIDA ATHAARVGAY SVQTAGAQAS YPDASVSLPS
V

> RXA02803 (1-399, translated) 133 residues
SGEMLAAALS AGMASQGV DV IRVGVIPTPA VAFLTDDYGA DMGVMISASH NPM PDNGIKF
FSAGGHKLPD HVEDEIERVM DSLPAEGPTG HGVGRVIEEA TDAQDRYLEH LKEAVPTSLE
GIKIVVDAAN GAA

> RXA02807 (1-465, translated) 155 residues
MAHSYAEQLI DTLEAQGVKR IYGLVGDSL N PIVDAVRQSD IEWVHVRNEE AAFAAGAES
LITGELAVCA ASCGPGNTHL IQGLYDSHRN GAKVLA IASH IPSAQIGSTF FQETHPEILF
KECSGYCEMV NGGEQGERIL HHAIQST MAG KGVSV

> RXA02821 (1-180, translated) 60 residues
VGYGIATIGP GLGIGILVGK ALEGMARQPE MAGQLRTTMF LGIAFVEALA LIGLVAGFLF

> RXA02829 (1-276, translated) 92 residues
MQKNILKSGI EISELGLGCM SLGTDYKKAQ PIIESAIDNG ITYFDTADIY DQGVNEEIVG
KALKKYQNRD DIVIGTKVGN RLTDGHTW GS

> RXA02852 (1-279, translated) 93 residues
VAVSDFSTDL PNQIREWVPG DYTVLGADGF GFSDTRPAAR RFFNIDAESI VVAVLNSLAR
EGKIDVSVA A QAAEFKLDD PTSVSVDPNA PEE

> RXA02853 (1-1407, translated) 469 residues
MAKRIVIIGG GPAGYEAALA GAKYGA ETV IEDVGVGGS A VTMDCVPSKS FIAGTGIKTD
LRRADDMGLN RGLGKAHLEI DALNIRVKDL AKAQSEDILG QLQRSDVRMI NGVGRFDDYN
TKQTTHYIKV THSDGSEETV ECDLVLVATG ATPRILKGAE PDGERILTW R QVYDIEELPT
HLIVVSGSVT GA EFSVSAFAE LGVKVTMVAS RDRILPHDDA DAADVLETVL AERGVSLK H
ARVESVTRTE DGGVCVRTAD GREIYGSHAL MTVGSIPNTA DLGLENIGVE LAPSGHIKVD
XVSRTNIPGV YAAGDCTDLF PLASVAAMQG RIAMYHALGE GVSPIRLKT V ATAVFTRPEI
AAVGITHAQV DSGEVSARVI VLPLATNPRA KMRSRLRHGFV KLFCCRNSGL IIGGVVVAPT
ASELILPIAV AVTNRLTVAD LADTFVAVPS LSGSITEAAR QLVQHDDL G

> RXA02854 (1-1584, translated) 528 residues
MDESRLSFG TAGLRAPVGP ARHQMNV LQV TRTTAGVASW LAERAALNPV PHLVPEDETG
IGRALYPQDG PLRVVVG YDA RYGSHTFAAT TAEVFAGAGF EVTLLPTPSP TPLIPWLVNK
HGLDAGVQIT ASHNGAADNG YKVFLSNGRQ LYSELEPELE AHINAVEDPI RVPRVTVRPT
ADQLRRYVDE MVSLVTPDQA DLLRVN SERG NLRVVYTALH GVGGRAMANA FQFAGFPHTH
GVKAQQYPDP TFPTVAFPNP EEP SAI ELL ERAKEKNADI LFALDPDADR CAVGIRTADG
GHRMLSGDEV GTLLATRLVP EYSGEGPRPV VATTVVSSQL LGIIAEDKGW DYSETLTGFK
NLSRAADGLD GPLAFAYEEA VGTCPPVDV PDKDGISTAL FMASWAAELK AQGASLQQL
NELYRRYGYF ASSQIAV RVS SPRELVDHWI AHPQQELIGV SVTPHILPEK QGIALHGQVG

HVHIRAIGRV SGTEAKAKLY LEVGQASSHD EAAQLLHOLE DEVQSWLS

> RXA02872 (1-672, translated) 224 residues
AREAWRIFMS HWDLYAGTAT GYWVEQEFEH VFGINAERLN VGTPEHADAI FDELTDILAK
PDFRPRALAE QFNLEVLATT DDPLDDLADH KALADPTFS PRVLPTFRPD AYTKMYNAGW
AEKTTKLIDT AGDGKAGWEG YLQAMRNRRQ YFINHGATSA DHGLHDTDTT PLSHKDAQKI
LDKGLAGTAT LAEMHAFEAN TTYRFAEMSQ EDGLVMTIHP GVYR

> RXA02873 (1-510, translated) 170 residues
FGENKDLISD SSFNRWLRTV SLGSTQDADM AAASNLAANS KMARQNTRDI LDAVSDGGVM
LGRNGALVLG PVVGTLHIKF IAPLNKRVER VMYKTGLSEA AAAEQCALED RLREEMAHAL
YQWNPGRDEN YDLVINTGSM TYEQIVDLVV ETYARKYPLH VRIIPNGKDQ

> RXA02887 (1-408, translated) 136 residues
MADQAKLGK PSDDSNFAMI RDGVASYLND SDPEETNEWM DSLDGLLQES SPERARYLML
RLLERASAKR VSLPMTSTD YVNTIPTSM PEPFGDEEME KRYRRWIRWN AAIMVHRAQR
PGIGVGHHIS TYAGAA

> RXA02897 (1-1287, translated) 429 residues
DLDGFRQEVs REQGGIPSYP HPHGMKDFWE FPTVSMGLGP MDAIYQARFN RYLENRGIKD
TSDQHVAFL GDGEMDEPES RGLIQQAALN NLDNLTFVVN CNLQRLDGPV RGNTKIIQEL
ESFFRGAGWS VIKVWGREW DELLEKDQDG ALVEIMNNTS DGDYQTFKAN DGAYVREHFF
GRDPRTAKLV ENMTDEEIKW LPRGGHDYRK VYAAVKRALE TKDRPTVILA HTIKGYGLGH
NFEGRNATHQ MKKLTLDLKD LFRDKQGIPI TDEQLEKDPY LPPYYHPGED APEIKYMKER
RAALGGYLPE RRENYDPIQV PPLDKLRSVR KGSGKQGIAT TMATVRTFKE LMRDKGLADR
LVPIIPDEAR TFGLDWFPT LKIYNPHGQN YVPVDHDLML SYREAPGQI LHEGINEAGS
VASFIAAGT

> RXA02902 (1-672, translated) 224 residues
LASDLGIKFV AVVDKDLTA EKFGTGLGAA GDSESSVKA HGSLPALFSK KKIDVLHITT
PHDQHIGLAL EALHHGVNVI LEKPLANELD QAQRLIDYLD ENPDGPKIAV CYQNRNVSS
QELRRLDSG DLGAINGAYS SVVWTRTPGY YTKPWGQQ AHSGGGLLMN QAIHTDLLQ
WFLGKATEVK GTVSTDKYAD VIDVEDTAHA YIGHESGVHT SEVS

>RXN00013 TRANSLATE of: rxn00013.seq check: 4426 from: 1 to: 873
MEGMTNPEQTHPAASLEDMIKTITKTFVIAHQDQSDHLAALVYNAGRLAWRMRENGVD
TDYKTSVSDVVTADRAAEAFVAGVLEALRPEDGVLGEEGADRASKSGKTWVIDPVDGTY
NFTQGSYDWCALALVEGDPSAPSRVLFVAVHRPAMGYTWFGGPGIRTTLTGKELDLLVD
APLNQISLATYIHPRIAEPDIQKAWMSVATHPATLRMFGAGSIDLANIADGSMGAWVQH
SVADWDWLPGRALIEGVGGACIKVTAGGVEWSVAGNAEAVSEISETLSALD

>RXN00014 TRANSLATE of: rxn00014.seq check: 1159 from: 1 to: 780
MSKYADDLALALELADLADLDRFEASDLEVSSKPDMPVSDADLATEEALREKIATA
RPADSILGEEFGDVEFSGRQWIIDPIDGKTNVVRGVPVWATLIALLDNGKPVAGVISAP
ALARRWWASEGAGAWRTFNGSSPRKLSVSQVSKLDDASLSFSSLSGWAERDLRDQFVSLT
DTTWRLRGYGDFFSYCLVAEGAVDIAAEPEVSLWDLAPLSILVTEAGGKFTSLAGVDGPH
GGDAVATNGILHDETLDRLK

>RXN00043 TRANSLATE of: rxn00043.seq check: 5115 from: 1 to: 1164
MAEVVHYQENAGQAVKKIEGRIVTPHGVIDGFLQLENGIITELSGEPAPKNAGFHPPELPT
IVPSFIDLHNHGGNGGAFPTGTQDQARNAAQYHREHGTVMVLSMVSAPADALAAQVENL
IPLCEEGLLCGIHLEGPFINACRCGAQNPDFIFPGNPTDLAQVIHAGKGWIKSITVAPET
DNLTELLDLCAAHIIASFSGHTDADFDTTSAIALAKEKNVTVTATHLFNAMPPHHRDP
GSVGALLAAARAGDAYVELIADGVHLADGTVDLARSNNAFFITDAMEAAGMPDGEYILGV
LNVTVTDGVARLRDGGAIAGGTSTLASQFVHHVRRGMTLIDATLHTSTVAAKILGLSDHE
IVKSNPVNFVVFDSNGQLQQVHLHQVI

>RXN00148 TRANSLATE of: rxn00148.seq check: 5482 from: 1 to: 2211
MTSIPNFSIDIPLTAETRAESHNVDAKGVWNTPEGIDVKRVFTQADRDEAQAAGHPVDSL
PGQKPFMRGPYPTMYTNQPWITIRQYAGFSTAASNAFYRRNLAAGQKGLSVAFDLATHRG

YSDNERVVGVDGMAGVAIDSILDMRQLFDGIDLSSVSVSMTMNGAVLPILAFYIVAAEE
QGVGPEQLAGTIQNDILKEFMVRNTYIYPKPSMRIISNIFEYTSLKMPRFNSISISGYH
IQEAGATADLELAYTLADGIEYIRAGKEVGLDVKFAPRLSFFWGISMYTFMEIAKLKLAG
RLWSELVAKFDPKNAKSQSLRTHSQTSGWSLTAQDVYNNVARTAEAMAATQGHQTSLH
TNALDEALALPTDFSARIARNTQLLLQQESGTVRPVDPWAGSYVVEWLTNELANRARKHI
DEVEEAGGMAQATAQGI PKLRIEESAARTQARIDSGRQALIGVNRVVAEEDDEEIEVLKVD
NTKVRAEQLAKLAQLKAERNDAEVKAALDALTAARNEHKEPGDLQNLKLAVDAAKAK
ATIGEISDALEVVFRHEAEIRTLGSGVYKDEVGKEGTVSNVERAIALADAFEAEEGRRPR
IFIAMGQDGHDRGQKVVASAYADLGMDVDVGPLFQTPAEAAARAADADVHVVGMSLAA
GHLTLLPELKKELAAALGRDDILVTVGGVIPPQDFQDLYDMGAAAIYPSGTVIAESAIDLI
TRLAAHLGFDLDVDVNE

>RXN00200 TRANSLATE of: rxn00200.seq check: 5263 from: 1 to: 3438
MRQVGNGGGHQLDSINVSDVVESKKLKGSAQEPPQVAPGWLKKLAISSGLLGLLMFVLLP
FLPVNQVQSSLSWPQNGELSSVNAPLISYAPQSMASIPVSALDSLNDNQSLVMGTLPLD
STDATNRGLFVRTIDGNLDVIVRGEVLLDLSPTENVRLPDDAILEISSTEETTSAEITGT
AFSGETEGDERPQVTGVYTELVDDPSTASALASAGLNV DIEINSRFTSSPSLLKYAAIFI
GLASVLVSLWTLHRMDILDGRKAHRFLPANWYKLPDGVVAILVFWHFLGANTSDDGF
IMTMARVSQNADYMANYYRWFGVPESPFQAPYDDLALMAYISTSSIWLRLPALLAGLIM
WFWITREVMPRFGLSVNGRRVAHWSAAMVFLAFWLPYNNGTRPEPIIAMGALLAWVSFER
AIATSRLLPAAIGV IATISLASGPTGLMAVAALLVSLSALIRILYRRLPLIGASRGASK
SKVFGASAMAMLAPFLASGTAILIAVFGDQTLSTVMESISVRSAGKPAITWYHEYVRYQTV
MEQTVDSGFTRRFAVLMLMACLAIVVIAILRYGRIPGAAGKPSLRLLMMVIFGTMFFMMFT
PTKWTTHHFGVYAGLAGALAGLAAGVLSYVAVKSPRMTISIGAFLLALALAGVNGFWY
TSSYAVPWWDKTIQIKGIEASTVVLVIAVIVLIIGVQSFVHDVKTAQAETNHSMGELVA
EDEAKRERASRFTGLAASPIAGVSALVVLITCASMKGKGFVDQYPAYSVGLGNLRSLTGNT
CGLASDAMLETNSNDSFLTVPVNSTLGESLESEDIRGFSAGIPPSISQDQADLSAVGAIA
NTDDSTETGGSDSSGQSTGNTGGVRGSEGINGSNARLPFNLDYTQVPVVGWSAGTQNP
ANITTDWYEIPEATEEAPIIVVSAAGRIEHYDINGVRQSGQSVMLEYGRLRDNGDVEDLG
EAMMYDIGPEPSWRNLRYPLDQLPEEADVVRIVATDVNLDEDQWVALTPPRVPLDLSLN
VIGSETPGLLDWAVGLQFPCQRTFDHYAGVTEIPEYRISPDHGGKSTLSPFQDWAGGGS
GTAEAVNNAYEIPSYLRNDWGRDWGSIERYSLRTNSNGDAPKQVADINLETIQRSGLWNPG
HMKVDE

>RXN00231 TRANSLATE of: rxn00231.seq check: 1223 from: 1 to: 1470
MTINVPELLVKSPTGLLIGDSWVEASDGGTFDVENPATGETIATLASATSEDALAALDAA
CAVQAEWARMPARERSNILRRGFELVAERAEFATLMTLEMKGKPLAEARGEVTYGNFLR
WFSEEAVRLYGRYGTTPEGNLRMLTALKPVGPCLLITPWNFPLAMATRKVAPAIAGCVM
VLKPARLTPLTSQYFAQTMLDAGLPAGVLNVVSGASASAINPIMEDDLRKVSFTGSTP
VGQQLLKAADKVLRTSMELGGNAPFIVFEDADLDLAEIGAMGAKMRNIGEACTAANRFL
VHESVADEFGRNFAARLEEQVLGNGLDEGVTVGPLVEEKARDSVASLVDAVAEGATVLT
GKGAGTGAGYFYEPTVLTGVSTDAAILNEEIFGPVAPIVTFQTEEEALRLANSTEYGLAS
YVFTQDTSRIFRVS DGLEFGLVGVNSGVISNAAAPFGGVKQSGMGREGGLEGIEEYTSVQ
YIGIRDPYAG

>RXN00296 TRANSLATE of: rxn00296.seq check: 2905 from: 1 to: 2844
MHTTIKFNRLDPEVFSQHSRAKLRTDMTTAAAYSSDAGIFRRVPAVAEPENVEQIRDAI
AVAVARGWSVVGRRGGSSVAGNAIGELIIDTSRYFNRI LDDIPVAQTAVVEPGVVCDA
RDAAAEFGLTYGPDPSHRSCTIGGMVANNACGSHSVAFGTAAENLVDVTLMLSDGREVT
VTKDGCDDAEINQKLTDLASKNQDLISKELGRFPQVSGYGLHYLAHDMAMAGTEGTI
GIITRLTVKLVPTPKVKALAVLAFDVFDAARAAAKLRLPGVATIEGMGGDLLAALRSKQ
GQSEAGQNLPGNRIGIEAGGWLYCETGSDTLQAAVQAAEEVATAVDITIDYVVVSEPMR
ELWRIRESSAGIVTRLADGGEAWPNWEDSAVPPENLADYLRDLYALMDKFDYQGI PFGHF
GEGCVHVRISFDFSTKEGLKKFEAFMNEASTLVASYGGSLSGEHGDGRARSSFLDRMYSA
EMRALFEEFKLIFDPQRI FNPGLVWADPVMQGLRMDPGQRALDITPVHKFSKDKGSMIN
AVNRCVGSACRSESDAMCPSFQITGDEVHSTRGRARLLSEMFRGESIADGYRSEEVNEA
LDLCLSCACASECPVNVDMSTYKAEFLDKHYAGRLRPMAHYVMGWLPLLGHVAHKIPLL
PTLIDATMQSALTAPVVRKVGGADRPLISFAHRSRLRYKPKKNSGETVVLWPD SFNTNL
DTGPAHAAIKTLEALGYNVIPDGFVCCGLTWHSTGQLSMTKKVLEQTAKVMKPYLDQGL
TVVGLPEPSTVMLQDEATELSDNPDARLAALTKPFAEVIAPKITELVESGSLQLTESTA
LTQVHCHERSLGDPPQQSALVLEALGVKDEQIATGCCGLAGNWGFEDHAEMS FALGEREL

FPKVRKAEGHVIADGFSCRTQIEQGTGKQATHLAEVVLSILEQNNMAQ

>RXN00310 TRANSLATE of: rxn00310.seq check: 2380 from: 1 to: 435
MSDKIWKVGIIGCGAISRNHIEAVQAIPGAEVSAVCDVDGAKASETAAKYGISPSFTSVD
EILASGVDIVAVCTPHPTHETVVLAAAAAGVHVLCEKPIAIELDSAQRMIDACESAGVQL
GVLFQRRFWPAAQMKMKEPSWANAR

>RXN00316 TRANSLATE of: rxn00316.seq check: 4820 from: 1 to: 1146
MGQCTVALYREHSYYTATPWRGTWAADGGGVLMTQAIHYIDLWLLGEPVEVFGYTNSF
KHGDNIEVEDSAVATVRFESGALATISATTAEPALGAQVQVMGTGATMTILEFPEGTD
GRLIVRSENDTRRNHPIPPRGSLSQCRSFHHQRCFDPVSHRPDRRLYRCAQRRPPTDHR
PRCHQSSSESPWCLRISSHPAGLFDLTEAFKTSRQIGLAPLSSLSTPPDQLVRLAAATG
FSFVGLRVIAVTPNERVYDLSPGSPLLAATQQALKETALYVLDTEFLQVNADTTREAWLP
ALEAAGALGAKFTTIAAGDDNIAPLTDITIGAMVDDARDFGVTPALEPISYRSVHSIPQAA
AIARDSGGKVVDATLHMARFGA

>RXN00317 TRANSLATE of: rxn00317.seq check: 4403 from: 1 to: 654
VTTPSKKTLLFDLDGTLVDSFPGIRTSFLHTLHEKNWEIPSEERISQVPGPPMEWTFQDL
GMTPEQAQDALQTYLEHYGVGWDLSEAFPGMRDLLIRLKYEGFRLCTATSKGEFFAEKV
LRKFEMFDLFEFMGAATDSGNRRSKSAVIKHVLDVGLDEPNILMIGDRSHDIEGSSEF
GIDCVAVTWGYGSKTEWDAARYTVSTAEELERIIHDWA

>RXN00337 TRANSLATE of: rxn00337.seq check: 9748 from: 1 to: 1050
MLLTYAFVDVEGGVEKHSLSSTADIAARAHAMKSHDVLGRQTTPPQPEGGAARLGGLIAW
TMIHKQMLSRDTKGLDITVLSTIPEGVGLGENSAMVALALALYRENIEEAPTARIAEI
CSQSAMFSETSVLRARHTVALRGETGQISVVDYADGSVTQAPHPVSRASGLSAFVVAQ
TETDPSIYREIYARHAFIDEAARAFSVESLRLPDASTRVVDWLQAVIEVTGREDLPSIE
QAQRWLNLENWENETRAQRTANALRSRRLSEFSELLMESQDDLSDTFDFPPADLALARLCV
ERGATAARSTSARGVIALVDAHHAHNFAADLSEDGLLVVPLGHGDVAEQG

>RXN00387 TRANSLATE of: rxn00387.seq check: 3252 from: 1 to: 855
MFRSNISYAVGDDIQNDPETWEDYELRVNHPLRIEGDRVYLQGHGFAPTFTVTWPNGETR
TQTVQWRPDDPTFFLSSGVVRFDPAGMYPDLYERRQNQLAIQGLFAPTAEWEGDNNELL
TSSYPAMRDPVAVIDIYRGDNGLDTGIGQSLFSLDSSLMHSGVLQKIERVNLQIGDVTTL
DDGTTVSFDGASEFANYQISRDPTQNWVLVTTVISLSLVGSLMIRRRRIWVRFYPQENG
TTRVETGGLARTDRAGWGGEYEKFHRELLGLKEEDEDEEYFDHDD

>RXN00388 TRANSLATE of: rxn00388.seq check: 9749 from: 1 to: 1011
MLPVNQTYAQFSDTAFVSAYIIYVLALILSLVYVYKQQGIIDARREQTRVSELVGAGGSA
DVDTDLPDIADGVLADEDLAKREETARKLANMTQSLMWLGVMVHLVSVVMRALSASRFP
FGNLHEYILMVTFLFAMIGAVLILQRPQFRVVPWILTPMLALLFYGGTQLYSDAAPVPPA
LQSFWFPIHVSSVSIGASIGIVSGIASLLYILRMWQPKGKEKGFFGAVAKPLPSGKTLDN
LAYKTAIWTVPFIPLGLIILGAIWAEAAWGRFWGWDPKETVSFITWVLYAGYLHARATAGW
RNTNAAWINILALVTMIFNLFFINMVVSGLHSHYAGLN

>RXN00389 TRANSLATE of: rxn00389.seq check: 9029 from: 1 to: 1560
MITATALHGCSLIDGEWVAGKNGEITGDFPRTNASLNPSYSLANSACLRAATTSKRAFE
SYRLTTPPEVRADFLDSIADNIDALSGEIVQASLETGLGTTRLTGEVARTSNQLRLFAET
VRSGQFHRVRIERGPRIDLQRQVPLGPVAVFGASNFPVAFSTAGGDTASALAAGCPVVF
KAHNAHPGTAELVGQAVRGAVEKHEFDAGVFNLVYGRGVEIGQELAADPNITAIGFTGSR
QGGALSQTAFSRPVPVPVFAEMSATNPVVFPGALADLDASSSLAEFTASVTGSSGQL
CTKPGLVFI PRGVGDAFVALVAAKFKETTGQTMLTQGIAQAWQRGVDNLAAQPSVKILA
QGTGPDGENAPGPVVFESDVQALLNNVVLQEEIFGAASLVVRYDSPQLHQVANSLEGQL
TATI HASQDDFQEVSKLIPLLEDLAGRVLYGGWPTGVEVGHTVIHGGPYPATSNQSTSV
GTLAIERFMRPVSYQTFPAELLDPVSEANKWAVPREIDR

>RXN00401 TRANSLATE of: rxn00401.seq check: 9893 from: 1 to: 939
MARFSPQDLADHLKDGLLSFPATAFQDDLEVDAAAYVEHIEWQSSYPVAGLFAAGGTGEG
FSLTVEENHRVTQAVQASSPEVPVLGSATGSTKSAIANAQAAGAEAGVLLLPPLYLTE
CDAEGLYNHAAVCESTSLGVIVYNRANAIYSPEVIARLSERYPNFIGFKDGTGNIEHLA
KITTLGCDRLFYLGGLPTAETFALPLLQMGMSYSSAMFNFI PDFALSFYADVRAQDSAA

VKQKLSDFVLPYLDIRDRAGGYGVSIGKGLKAVGRNAGGVRPPLRNLSEQDIADLSDLL
ATSGAGSYRLQLR

>RXN00427 TRANSLATE of: rxn00427.seq check: 2014 from: 1 to: 786
MGRILVFYSVTLEVAGDRPVYTPSRTNLGDGGGFAFGFLTALALGANAVWCTDDDGRRPEG
PGVLKTLIDAASRHNLEEVSPVVCNADDPERLAFPLRRGLEWRRMRSELIDPANPEDDLL
PGIASLFNGALISAYAMERIGVPDYRLFIRGDEVEYHRRLVRSGLPFGTCLTTAYLHPDG
SDEFKPILGGRMHTQYPDNDFKRFFTYRNRGYLMSQPGMRKLLPQEYARFAWFFLVQKRD
VKGFREWLRLHLKLRDEKFNRP

>RXN00483 TRANSLATE of: rxn00483.seq check: 5018 from: 1 to: 1464
VLVTGATGYIGGRLITELLAAGFQVRATSRKKTSLQRFWDYEDVEAVEADLTDATELDTL
FKDVDVYYLHVSMGGKNVDFEEQEORTAENVIAADQAGIKQIVYLSGLHPRNRKIEEL
SKHMRSEKVAQILLAGQTPALILRAATIIGSGSASFEEIRHLTERLPRMIAPQWITNQI
EPLAIRDVLHYLISAADLKDPVNRSCDIGCGKSYEFADLLRIYADVRGLKRHVNSVPLNL
PMDKLSGLWISLVTVPVQFQSFPLAQSMADAVTEEHSIKDIISDPDGFIEYREAVELA
LAAEFDRGVPTSWDRSWTVQQPWAGQPTDPEWAGKAVYEDVRTEDTLRAAQVWPIIEGL
GGVNGWYSAPLLWRLRGIADRLIGGPGGRRDPRHLKLGDRIIDWVRVTEIDPPHRLVLT
AEMKVDGGAWLILEVADKENGCTYTQRAIFEPKGLPGYLYWWVVSFHAIFPYMRSNI
LKAARKLT

>RXN00519 TRANSLATE of: rxn00519.seq check: 5871 from: 1 to: 2214
MAKIIWTRTDEAPLLATYSLKPVEAFAATAGIEVETRDISLAGRILAQFPERLTEDQKV
GNALAELEGELAKTPEANIIKLPNISASVPQLKAAIKELQDQGYDIPELPDNATTDEEKDI
LARYNAVKGSAVNPVLREGNSDRRAPIAVKNFVKKFPHRMGESADSNTVATMDANDFR
HNEKSIILDAADDEVQIKHIAADGTETILKDSLKLLEGEVLDGTVLSAKALDAFLLEQVAR
AKAEGILFSAHLKATMMKVSDPIIFGHVVRAYFADVFAQYGEQLLAAGLNGENGLAAILS
GLESLDNGEEIKAAFEKGLEDPDLAMVNSARGITNLHVPSDVIVDASMPAMIRTSGHMW
NKDDQEODTLAIIPDSSYAGVYQTVIEDCRKNGAFDPTTGMGTVPNVGLMAQKAEYEGSHD
KTFRIEADGVVQVSSNGDVLIEHDVEANDIWRACQVKDAPIQDWVKLAVTRSRLSGMPA
VFWLDPERAHDRNLASLVEKYLADHDTEGLDIQILSPVEATQLSIDRIRRGEDTISVTGN
VLRDYNITDLFPILELGTSAKMLSVVPLMAGGGLFETGAGGSAPKHVQQVQEEHNHRLDSL
GEFLALAESFRHELNNNGNTKAGVLADALDKATEKLLNEEKSPSRKVGIEDNRGSHFWLT
KFWADELAAQTEDADLAATFAPVAEALNTGAADIDAALLAVQGGATDLGGYYSPNEEKLT
NIMRPVAQFNEIVDALKK

>RXN00528 TRANSLATE of: rxn00528.seq check: 9827 from: 1 to: 1089
MSTSTIRVAIAGVGNCATSLIQGVEYYRNADPSETVPGLMHVKFGDYHVGDIIEFVAADFV
DAEKVGLDADATEASQNTIKIADVPOQTGINVLRGPTLDGLGDHYRATIDESTAEPPDV
VQALIDAKADVLVSYLPVGSEADKFYAQAIDAGCAFNALPVFIASDPEWAKKFTDAG
IPIVGDDIKSQIGATITHRVLARLFEERGVRVDRMTQMLNVGGNMDFKNMLDRNRLESKKV
SKTQAVTSNIPDGPLSGKVEDRNVHIGPSDHVQWLDDRKWAYVRLEGTAFFGGVPLNLEYK
LEVWDS PNSAGIIIDAVRAAKIALDRGIGGPIMPASSYLMKSPPEQLPDDVACERLEAFI
IEA

>RXN00595 TRANSLATE of: rxn00595.seq check: 7949 from: 1 to: 1530
MAMDVLLPIFVAVPLAASAIIVLLPWRLIRDILHIIVPFAGIFAGIWLFAHTAEHGPIAH
NVGLYVGGVAIPFAADTFSAIMLITTSIVAVANWFATIVGETRARFYPAITLMLITGVN
GALLTADLFNFFVIEVMLLPSYGLIAMTGTWARLASGRIFVLVNLSASTLLVAGVGIVY
GVIGSVNIAALQDVVEGNPLVASAMGIVVIAIAVKAGVFPVHTWLPRTYPGTSAAVMGLF
SGLHTKVAVYMLYRIWVHIFNMDPTWNWLIVAFMVISMVGGFAGLAENSIRRVLAYQMV
NGMPFILIMMAFTSDDPQRALAAGLLYTLHHMITIAALVLTSGAIEETYGTGMLSLSGL
ARREPVA AVFAAGAFSVVGFPFSGMWGKALILLEIARVGNIAAWIAIAAIIIASLGAL
LSMIRVWREVFWGGAMHQRGVSPQLRISPAKIAPALSLIILSVGMFIFAGPLIDATLTAT
DGLLNTDAYQQAVLGENAIGVPSPSYQGGN

>RXN00606 TRANSLATE of: rxn00606.seq check: 8402 from: 1 to: 2274
VLTGVIAVLIAMSAFTKSAQFPFHWLPEAMAAATPVSAFLHAAAVVKAGIYLLLRFSIV
FHDVAVWNWLLIIVGMGTAIMSAYFAVQKTDLKKLTAYSTVSHLGWIVATIGVGTFFALG
AAIVHTLSHALFKSSLFMLIGVIDHQTGTRDIRRLGFLVKKMPFTFVSVLIGALSMASVP

PLLGFSKEGMITAFMDAPIGNSYVVLVLLVGAAGAVLTFTYSAKLVLGAFVDGPRDMSH
VKEAPVSLWLPAALPGLMSLPLVLVLSLFDAPVSAATSAAGEAAHMLALWHGINTPLL
ISLGLVLVAGILGVLFRKELWKIAETSPFPFIATGNDILSMLVYRANLLGKFFGRMADSMSP
RRHLVSLIVLLWALAAAFATIHPSVQLAPKQPGIDRWIDLIPLAIIALS VFGLLTTRNRLS
AAVLVGTGVGVVSFQMLLLGAPDVALTQFLVEGLVVVIIMMVVRHQPANFKRIKPSRRRS
TVLVAVLAAFAAFMAVWGLLGRHERSELAMWYLNQGPETSGANVVNTILVEFRALDTLG
ELSVLGMAAVVIGAMVASMPRHPFAKGTHPRPFGQSQLNSIPLRMLLKVLVPALCFLSFM
VFMRGHNDPGGGFIAALIAGGALMLLYLSKAKDGRIFRPNVPFILTGAGILMAVFSGVLG
LTHGSFLYAIHFNFVQGHWTTSMIFDLGVYLAVLGMVSMANGLGGYLRPGTDNADLDYA
RRSGPLPATPTVEPEPEGEDWPEPINPAGDNKEEANR

>RXN00635 TRANSLATE of: rxn00635.seq check: 3133 from: 1 to: 1737
MAHSYAEQLIDTLEAQGVKRIYGLVGDSLNPVIDAVRQSDIEWVHRNEEAAFAAGAES
LITGELAVCAASCGPGNTHLIQGLYDSHRNGAKVLAIASHIPSAQIGSTFFQETHPEILF
KECSGYCEMVGGEQGERILHHAIQSTMAGKGVSVVVIIPGDIKEDAGDGTYSNSTISSG
TPVVFDPDTEAAALVEAINNAKSVTLFCGAGVKNARAQVLELAEKIKSPIGHALGGKQYI
QHNPFEVGMSSGLLGACVDASNEADLLILLGTDFFPYSDFLPKDNVAQVDINGAHIGRR
TTVKYPVTGDVAATIENTILPHVKEKTDERSFLDRMLKAHERKLSSSVETYTHNVEKHVPIH
PEYVASILNELADKDAVFTVDTGMCNVWHARYIENPEGTRDFVGSFRHGTMANALPHAIG
AQSVDNRNRQVIAMCGDGLGMLLGELLTVKLHQLPLKAVVFNNSSLGMVKLEMLVEGQPE
FGTDHEEVNFAEIAAAAGIKSVRITDPKKVREQLAEALAYPGPVLIDIVTDPNALSIPPT
ITWEQVMGFSKAATRTVFGGGVGAMIDLARSNIRNIPTP

>RXN00684 TRANSLATE of: rxn00684.seq check: 631 from: 1 to: 1284
MTSQTSSQSTSTGGCPFGHTSESTSHHGYPFDMHNPFPAYKELRQEEPVMFDERIGYWV
VTKYDDIKTTFFDDWETFSSENAQAPVRKRGPQATQIMTDGGFTAYSGLSARIPPEHTRIR
AIAQKAFTPRRYKALEPDIRAMVIDRVEKMLANDQHVGDMSVDLAYDIPTITILTIGAD
IFMVVTYKRWSDSRAAMTWGDLSDDEEQIPHAHNLEVEYQECQRMVADAHAGGDNLTADL
VRAQQEGQEITDHEIASLLYSLLFAGHETTTTLISNCFRVLDDHPEQWQAILENPKLIPA
AVDEVLYRSGSIVGWRRKALKDTEIGGVAIKEGDGVLLMGSANRDEARFENGEEFDISR
ANAREHLSFGFGIHYCLGNMLAKLQAKICLEEVTRLVPSLHLVADKAIGFRENLSFRVPT
SVPVTWNA

>RXN00705 TRANSLATE of: rxn00705.seq check: 1372 from: 1 to: 915
MGRITQNLQVPRVSTDEQVFVNTRPDTVAVEEPLERVNGTALTMTMRTPGHDIELVHG
LLLSEGLITDASEVFTARYCAGAVGPDNQNTYNVLELDVIPKDNPARDPVQNPSHNPEGS
QHEALHIPTFQPVRELNLVAAQRNVLTTSACGVCCTTSIEQLMNKKGWPIPTIPDPRMI
VSLPDKLKSQKQIFDKTGGVHAAGLATLDGEMLIREDVGRHNAADKVIGNMLMAGKLPL
ENTILVMSSRASFEVLVQKAAMAGISGVIAVGAATSLAIEAAQDSGIFLAGFVRGNKFNHY
AGELG

>RXN00799 TRANSLATE of: rxn00799.seq check: 3114 from: 1 to: 1644
MSQERPQIGSRLSRVIEQDGLQFRDLGDGVLAPYEDWRLTPAERAADLVKRMNVEEKAG
LMIIGSHYPGYSPLAPESEGKDAEKCEPLLNPFVDMWREDNPITGVPFTEPVLATSSSTENA
INLRNQRYLIVRDNLPARGLATWTNAVQEAERSRLGIPVAFASNPRNHVALVAQFGVNE
SAGVFSEWPGELGLAALRDAELMETFGTEAAKEWRAGGVHKLGYMADLASEPRWSRFNG
TFGEDPELISDYIAAVVRGLQGPELSKNSVSTTIKHFPGGGVRLDGHDPHFHWGQTNEYF
TEDALGKYHLPFFQAAIDAGCASIMPYYARPMNNSANQLDQQLWQNPTTQFEVAFAYNR
TFIQDLLRDAMGHRGYVNSDSGVIDAMMWGVEELSEPERFAAAVRAGTDIFSDMANPRRL
LEAVAEGHLDSELNQPVQRLLEEIFQLGLFENPYVSEDEAEKIIGAPEVSALGNKAQLD
SVTLLRNNPIRAATGSCSKPEDLPYGYWQYQDRRGSTTAGSSHSRRTPRGNLGVFRVRSR
SCNRVGSF

>RXN00868 TRANSLATE of: rxn00868.seq check: 5375 from: 1 to: 1911
MAETKRMTVSQALVEFLGHQWTVGDGDIRERTIPGMFGIFGHGNVAGIGQALKQYNVEQPE
LMPYYQARNEQAMVHQSVMGYARMHRRRGTYASAASVGPATNLLTGAALATTNRLPALLL
PSDTFATRVADPVLQQLQEPWDIGLTVNDAFRPVSKFFDRVQRPEQLFSIALAAMRVLTD
PAETGAVTIALPEDVQAEMLDVPVEFLQDREWHIRRPPEAALARAIEVIKNAKNPMII
AGGGVLYSDAETQLQALVEQTGIPVGTSGAGGGVLAWDHAQNLLGGVGATGTLANRAGD
ADVIIIGIGTRYSDFTTASRTAFQNPVDVTFININVASFDAYKHGTQLPVIADAREAIVELA
EALQGFTVAEDYAQRIAKEKAAWDAEVDKSFAPSGLALPGQPEIIGAVQASTSEKDVIVQ

AAGSLPGDLHLKLRVRDALGYHVEYAFSCMGYEIAGGIGAKRGLDAAGDDRDRVIMVGDG
SYLMLNTELVTAVAEGIKVIVVLIQNHGYASIGHLSETVGSQRFGTWYREYDAEAKNFQG
EQILPVDLAMNARSYGMVDVIEVEPSANAIEDLKAAMATAKASEKSTFIHINSPLIYAPD
GAGWWDVPVSETSTLDSTNAAREDYLNQALQRPLLG

>RXN00871 TRANSLATE of: rxn00871.seq check: 1232 from: 1 to: 888
MRWFHKKGELARDGWQSVVDATTPGWEYTGIRIAELGSGESLELNDTGVERIFIPLQGSF
DVAHHGQVTHLHGRKSVFDGPTDVLYLPTGQTATLSGQGRVAVAEAPTQEPKEWKYIAPA
ETPVELRGAGRSSRQVHNFGTPEALDAARLIVCEVITPGENWSSYPHKKHDEHIPGHESK
LEEIYYFESAPSRVGGRAEAAEGAFGMFSTYSSPAGEIDINAMVYSGDIALVPFGYHGPA
VAAPGYDLYLNVLMAGPDPERIWLINDDPAHAWVRDWTGQAFDDRLPYENANKEG

>RXN00872 TRANSLATE of: rxn00872.seq check: 2930 from: 1 to: 954
MTNLTSTHEVLAIGRLGVDIYPLQSGVGLADVQSFGKYLGGSAANVSVAARHGHNSALL
SRVGNDFGGEYLLAELERLGVDNQYVATDQTFKTPVTFCEIFPPDDFPLYFYREP KAPDL
NIESADVSLDDVREADILWFTLTGTFSEEPSRGTHREILTTRANRRHTIFDLDIRPMFWES
PEEATKQAEWALQHSSTVAVGNKEECEIAVGETEPERAGRALLERGVELAIVKQGPKGVMA
MTKDETVEVPPFFVDVINGLGAGDAFGGALCHGLLSEWPLEKVLRFANTAGALVASRLEC
STAMPTTDEVEASLNQKV

>RXN00879 TRANSLATE of: rxn00879.seq check: 6977 from: 1 to: 2118
VTARRFLNELADLYGVATSYTDYKGAHIEVSDDTLVKILRALGVNLDTSNLPNDDAIQRQ
IALFHDREFTRPLPPSVVAVEGDELVPFVHVHDGSPADVHIELEDGTQRDVSQVENWTAP
REIDGIRWGEASF KIPGDLPLGWHKLHLKSNERSAECGLIITPARLSTADKYLDSPRSV
MAQIYSVRSTLSWGMGDFNDLGNLASVVAQDGADFLINPMHAAEPLPPTEDSPYLPTR
RFINPIYIRVEDIPEFNQLEIDL RDDIAEMAAEFRENRNLTSDI IERNVDVYAAKLQVLRAI
FEMPRSSEREANFVSFVQREGQGLIDFATWCADRETAQSES VHGTEPDRDELTMFYMWLQ
WLCDEQLAAAQKRAVDAGMSIGIMADLAVGVHPPGADAQNLSHV LAPDASVGAPPDGYNQ
QGQDWSQPPWHFVRLAEEGYIPWRNLLRTVLRHSGGIRVDHVLGLFRLFVMPRMQSPATG
TYIRFDHNALVGILALEAELAGAVVIGEDLGTFFPWQDALAQRGIMGTSILWFEHSPSQ
PGPRRQEYRPLALTVTTHDLPTAGYLEGEHIALRERLGLVNTDPAELAEDLQWQAE
ILDVAASANALPAREYVGLERDQRGELAELEGLHTFVAKTPSALTCVCLVDMVG EKRAQ
NQPGTTRDMPNWCIPLCDSEGN SVLIESLRENELYHRVAKASKRD

>RXN00999 TRANSLATE of: rxn00999.seq check: 9801 from: 1 to: 1452
MTNGDNLAQIGVVGLAVMGSNLARNFARNGNTVAVYNRSTDKTDKLIADHGSEGNFIPSA
TVEEFVASLEKPRRAIIMVQAGNATDAVINQLADAMDEGDIIIDGGNALYTD TIRREKEI
SARGLHFVGAGISGGEAGLNGPSIMPGGPAKSYESLGPLLESIAANVDGTPCVTHIGPD
GAGHFVKMVHNGIEYADMVIG EAYHLLRYAAGMQPAEIAEVFKEWNAGDLDSYLIEITA
EVLSQVDAETGKPLIDVIDAAGQKGTGRWTVKAALDLGIATTGIGEAVFARALSGATSQ
RAAAQGNLPAGVLTDL EALGVDKAQFVEDVRRALYASKLVAYAQQGFDEI KAGSDENNWDV
DPRDLATIWRGGCIIRAKFLNRIVEAYDANA ELESLLLDPYFKSELGDLIDSWRRVIVTA
TQLGLPIPVFASSLSYYDSLRAERLPAALIQQQRDFFGAHTYKRIDKDG SFHTEWSGDRS
EVEA

>RXN01025 TRANSLATE of: rxn01025.seq check: 6040 from: 1 to: 996
VVSVSVMGAGSWGTTLAKVFSDAGNAVTLWARREELASTIRDSHENRDYLPGITLPESLQ
VTSSATEALEGAAIVVLAIPSQALRG NLAEWKETIPQDATLVSLAKGIEKGTHLRMSEVI
AEVTEADPSRIAVLSGPNLAREIAEGQPAATVIACPDENRAKLVQA AAVAAPYFRPYTNTD
VVGTEIGGACKNVIALACGISHGYGLGENTNASLITRGLAEIARLGATLGADAKTFSGLA
GMGDLVATCSSPLSRNRSFGERLGQGESLEKAREATNGQVAEGVISSQSIFDLATKLGVE
MPITQAVYGVCHRDMKVTDMIVALMGRSKKAE

>RXN01048 TRANSLATE of: rxn01048.seq check: 6923 from: 1 to: 1224
MTIDLQRSTQNLTHEEIFEAH EGKLSISSTRPLRDMRDL SLAYTPGVAQVCEAIKEDPE
VARTHTGIGNTVAVISDGTA VLGLDIGPQASLPVMEGKAQLFSSFAGLKAIPIVLDVHD
VDALVETIAAIAPSF GAINLEDISAPRCFEVERRLIERLDIPVMHDDQHGTAVVILAALR
NSLKLLDRKIEDLKIVISGAGAAGVA AVDMLTNAGATDIVVLDSRGIIHDSREDLSPVKA
ALAEKTNPRGISGGINEAFTGADLFIGVSGGNIGEDALKLMAPEPILFTLANPTPEIDPE
LSQKYGAIVATGRSDLPNQINNVLAFPGIFAGALAAKAKKITPEMKLAAQRQSQTSQLRT
SRSAASCLPPWIPALPQQRQLSRPSPKRKTLKNLLIDASLPVEAPIF

>RXN01049 TRANSLATE of: rxn01049.seq check: 4562 from: 1 to: 1482
 MGS IPTMSIPFDDSRGPYVLAMDIGSTASRGGLYDASGCPKGTQKQRESHEFTTGEVST
 IDADQVVEITSVINGILNAADHNNIKDQIAAVALDSFASSLILVDGEGNALTPCITYAD
 SRSAQYVEQLRAEIDEKAYHGRTGVCLHTSYHPSRLLWLKTEFEKEFNKAKYVMTIGEYV
 YFKLAGITGMATSIAAWSGILDHTGELDLTILEHIGVDPALFGEIRNPDEPATDAKVVD
 KKWKHLEEI PWFHAI PDGWPSNIGPGAVDSKTVAVAAATSGAMRVILPSVPEQIPSGLWC
 YRVSRDQCIVGGALNDVGRAVTWLERTIIKPENLDEVLI REPLEGTPAVLPFFSGERSIG
 WAASAQATITNIQEQTGPEHLWRGVFEALALS YQVWEHMGKAGAAPERVIA SGRVSTDH
 PEFLAMLSDALDTPVIPLEMKRATLRGTALIVLEQLEPGGTRATPPFGTTHQPRFAHHYS
 KARELFDALY LKLV

>RXN01130 TRANSLATE of: rxn01130.seq check: 121 from: 1 to: 603
 MDLARKLGLLAGKLVDAAPVSVIEVEARGELSSEQVNA LGLSAVRGLFSGIIEESVTFVNA
 PRIAEERGLDISVKTNSSESVTHRSVLQVKVITGSGASATVVGALTGLERVEKITRINGRG
 LDLRAEGLNLFQYTDAPGALGTVGTKLGAAGINIEAAALTQAEKGDGAVLILRVESAVS
 EELEAEINAELGATSFQVDLD

>RXN01143 TRANSLATE of: rxn01143.seq check: 3222 from: 1 to: 1119
 IPVVTTLMALGTFPESHELHMGMPGMHGTVS AVGALQSRDLLIAIGSRFDDRVTGDVDTF
 APDAKIIHADIDPAEIGKIKQVEVPVIGDAREVLARLLETTKASKAETEDISEWVDYLKG
 LKARFPGRGYDEQPGDLLAPQFVIETLSKEVGPD AIYCAGVGQHQMWAQFVDFEKPRTWL
 NSGGLGTMGYAVPAALGAKAGAPDKEVWAIDGDCGFQMTNQE LTTAAVEGFPIKIALINN
 GKPGAWVRWQTLFYEGRYSNTKLRNQGEYMPDFVTLSEGLGCVAIRVTKAEVLP AIQK
 AREINDRPVVIDFIVGEDAQVWPMVSAGSSNSDIQYALGLRPFFDGDSEAAEDPADIHEA
 VSDIDA AVESTEA

>RXN01144 TRANSLATE of: rxn01144.seq check: 6367 from: 1 to: 516
 MANS DVTRHILSVLVQDVGII SRVSGMFTRRAFNLVFLVSAKTETHGINRITVVVDADE
 L NIEQITKQLNKLI PVLVKVVRLDEETTIARA IMLVKVSADSTNR PQIVDAANIFRARVVD
 VAPDSVVIESTGTPGKLRALLDVMEPF GIRELIQSGQIALNRGPKTMAPAKI

>RXN01146 TRANSLATE of: rxn01146.seq check: 6296 from: 1 to: 693
 MTGAKAIVRSLEELNADIVFGIPGGAVLPVYDPLY SSTKVRHVLVRHEQQAGHAATGYAQ
 VTGRVGVCIA TSGPGATNLVTPIADANLDSVPMVAITGQVGSGLLGTD AFQEADIRGITM
 PVTKHNFMTNPNDIPQALAEAFHLAITGRPGPVLVDI PKDVQNAELDFVWPPKIDLPGY
 RPVSTPHARQIEQAVKLIGEAKKPVLYVGGGV IKADAHEELRAFAEYTGIP

>RXN01175 TRANSLATE of: rxn01175.seq check: 3032 from: 1 to: 1386
 VSWTV DIPKEVL PDLPLPEGMQQQFEDTISRDAKQQPTWDRAQAENVRKILESVPPIVV
 APEVLELKQKLADVANGKAFLLQGGDCAET FESNTEPHIRANVKTL LQMAVVLTYGASTP
 VIKMARIAGQYAKPRSSDL DGNL PNYRGDIVNGVEATPEARRHDPARMIRAYANASAAM
 NLVRALTSSGTADLYRLSEWNREFVANS PAGARYEALAREIDSG LRFMEACGVSDSLRA
 ADIYCSHEALLVDYERSMLRLATDEEGNEELYDLSAHQLWIGERTRGMDDFHVNFASMIS
 NPIG IKIGPGITPEEAVAYADKLDPNFEPGRLTIVARMGHDKVRSVLP GVIQAVEASGHK
 VIWQSDPMHGNTFTASNGYKTRHFDKVIDEVQGF FEVHRALGTHPGGIHIEFTGEDVTEC
 LGGAEDITD VDLPGRYESACDPRLNTQQSLELAFLVAEMLRN

>RXN01193 TRANSLATE of: rxn01193.seq check: 6139 from: 1 to: 1449
 MTTALEEQNAQQAATAGRVVRVIGAVVDVEFPRGELPALYNALTVEVTLESVKKT VVLEV
 AQHLGDNLIRTIAMAPTDGLVRGA AVTDTARPISVPVGDVVKGHVFNALGDCLDDVSLNN
 NPEIERWGIHREPPSFDQLEGKTEILETG I KVIDLLTPYVKGKIGLFGGAGVGKTVLIQ
 EMITRIAREFSGT SVFAGVGERTREGTDLFLEMEEMGV LQDTALVFGQMDEPPGVGM RVA
 LSGLTMAEYFRDVQNQDVLLFIDNIFRFTQAGSEVSTLLGRMP SAVGYQPTLADEMGVLQ
 ERITSTKGRSITSLQAVYVPADDYTD PAPATTF AHLDATTELD RSIASKGIYPAVNPLTS
 TSRILEPAIVGERHYEVSQRVIGILQKNKELQDI IAILGMDELSEEDKITVARARRIERF
 LGQNFFVAEKFTGLPGSYVPLTDTVD AFERICNGDFDHYPEQAFNGLGGLDDVEAAYKKL
 TKG

>RXN01204 TRANSLATE of: rxn01204.seq check: 374 from: 1 to: 810
 MKGEFHAPDL DKEFFPGHVTD SGEVVNMLFTDFANGWFAMDRIVLIRLLMTAVVVVFFLW

AMRKPKLVPHGVQNFAYALDFVGIHIAEDILGKKKGRRFLPILATIFFAALLMNLATII
PGLNISSNSRIAFPIVMAVAGYIAFIYAGSKRYGFFKYVKSSVVI PNIPPALHVLVVP
FFSTFILRPVTLALRLMANFLAGHIIILVLLFSATNFFFFQFNGWTAMSGVTILMAVLFTV
YEIIIVIFLQAYIFALLVAVYIELSLHADSH

>RXN01225 TRANSLATE of: rxn01225.seq check: 1629 from: 1 to: 1440
MTHNHKDWNDRIAVAEEMVPLIGRLHRNNNVVSVFGRLLVNVSDIDIKSHRYARHIIS
KELPLESSLDILRELVDNMNLGTASIDLGQLAYSFEESESTDLRAFLEDALAPVIGAETDI
NPTDIVLYGFGFRIGRLRLARILVSREALYD GARLRAIVVRKNGEEDLVKRASLLRRDSVHG
GFDGTITTDYDNNIIWANGTPIKVIYSNDPATIDYTEYGINDAVVVDNTGRWRDREGLSQ
HLKSKGVAKVVLTA PGKGD LKNIVYGINHTDITADDQIVSAASCTTNAITPVLKVINDRY
GVEFGHVETVHSFTNDQNLIDNFHKGSRRGRAAGLNMVLTETGAAKAVSKALPELEGKLT
GNAIRVPTPDVSM AVLNLTLNTEVDRDEVNEFLRRVSLHSDLRQQIDWIRSPEVVSTDFV
GTHAGIVDGLATIATGRHLVLVWYDNEFGYSNQVIRIVEEIIAGVRPRVYPERRQPAVL

>RXN01312 TRANSLATE of: rxn01312.seq check: 2455 from: 1 to: 2019
MSTHSETTRPEFIHPVSVLPEVSAGTVLDAAEPAGVPTKDMWEYQKDHMNLVSPLNRRKF
RVLVVG TGLSGGAAAAALGELGYDVKAFTYHDAPRRASIAAQGGVNSARGKKVDNDGAY
RHVKD TVKGGDYRGRESDCWRLAVESVRVIDHMAIGAPFAREYGGALATRSFGGVQVSR
TYYTRGQTGQQLQFSTASALQRQIHLGSVEIFTHNEMVDVIVTERNGEKRCEGLIMRNLI
TGELTAHTGHAVILATGGYGNVYHMS TLAKNSNASAIMRAYEAGAYFASPSFIQFHPTGL
PVNSTWQSKTILMSESLRNDGRIWSPKEPNDRDPNTIPEDERDYFLERRYPAFGNLVPR
DVASRAISQQINAGLGVGPLNNAAYLDFRDLATERLGQDTIRERYSNLFTMYEEAIGEDPY
SSPMRIAPTCHFTMGGLWTDNFEMTSLPGLFCAGEASWYHGANRLGANSLLSASVDGWF
TLPFTIPNYLGPLLGSERLSEDAPEAQAAIARAQARIDRLMGNRPEWVGDNVHGPEYYHR
QLGDILYFSCGVS RNVEDLQDGINKIRALRDDFWKNMRTGSTDEMNOVLEYAARVADYI
DLGELMCVDALDRDESCGAHFRDDHLSEDGEAQRDDQNWC FVSAWEPGENGT FVCHAEPL
FFESVPLQTRNYK

>RXN01332 TRANSLATE of: rxn01332.seq check: 4448 from: 1 to: 576
HISAIIEPDAAAAAEDAPGAQAFTRIEDAIAADAVDAVLIAPVPGQFHEPVLVPALEA
GLPILCEKPLTPDSESSLRIVELEQKLDKPHIQVGFMRFDPEYNNLRKLVESGEAGELL
MLRGLHRNPSVGSYTSMLITDSVVHEFDVIPWLAGSRVVSVEVKYPKTSSLAHSGLKE
PILVIMELENGV

>RXN01340 TRANSLATE of: rxn01340.seq check: 5971 from: 1 to: 858
KVGEIIASVFDTFNIPQGLVSIITTTTRDAELSAELMADPRLAKVTFTGSTNVGRILVRQS
ADRLLR TSMELGGNAAFVIDEAAADLDEAVSGAIAAKLRNAGQVCIAANRFLVHESRAAEF
TSKLATAMQNTPIGPVISARQDRDIAALVDEAITDGARLIIGGEVPDGS GFFYPATILAD
VPAQSRIVHEEIFGPVATIIATFTDLAEGVAQANSTEFGLAAYGFSNNVKATQYMAEHLEA
GMVGINRGAISDPAAPFGGIGQSGFGREGGTEGIEEYLSVRYLALP

>RXN01365 TRANSLATE of: rxn01365.seq check: 6665 from: 1 to: 1374
MRTRESVTAVIKAYDVRGVVGVDDIDADFISETGAAGFRLMRSEGETTVAIGHDMRDSSPE
LAKAFADGVTAQGLDVVHLGLTSTDELYFASGTLK CAGAMFTASHNPAEYNGIKLCRAGA
RPVGQDSGLANI IDDLVEGVPAFDGESGSVSEQDLLSAYAEYLNELVDLKNIRPMKVAVD
AANGMG GFTVPEVFKGLPLDVAPLYFELDGNFPNHEANPLEPANLVDLQKFTVETGSDIG
LAFDGDADRCFVVDKGPVSPSAICAIVAERYLEKLPGSTIIHNLITSKAVPEVIAENG
GTAVRTRVGHFSFIKAKMAETGAAGFGEHSAHYFTEFFNADSGILAAMHVLAALGSQDQP
LSEMMARYNRYVASGELNSRLANAEAQQERTQAVLDAFADRTE SVDTLDGVTVELKDTSA
WFNVRASNTPELLRLNVEAASKEEVDALVAEILGIIRA

>RXN01369 TRANSLATE of: rxn01369.seq check: 8434 from: 1 to: 1182
MELLEGLSLRTYPWGSRTLIADLKGEESPSSRPEAEVWFGAHPGSPSTIGGNALNEVIAAN
PEEALGTRVAEAFENELPFLKILAAGAPLSLQAHPSLEQAREGFARENSAGIDL GAPNR
NYRDPNHKPELIVALTEFIAMAGFRPLRNTLTIFDALACEPLDRYRSM LTVDNEEESLRA
LFTTWITIPIGKRHELIDALISNAHTYLEASDRDEDIAFVLSHIIELENEQYPGDVGVLGA
LLNLFYKLAPGEALYLDAA NLHAYISGLGVEIMANS DNVLRGGLTSKYVDVPELVRLDF
NSLENARVDVEEDGATTHYPVPINEFQLDRVAVQGEAEANHDGPMIVLCTSGTVSLEAGE
KTLEVAAGHAAWVPANDPTIAMRSEDAEVFLARV

>RXN01376 TRANSLATE of: rxn01376.seq check: 9104 from: 1 to: 861
 VTYS PGKYLASFLDSLPGATSRDTHVVMADNGSVDGVPEQAAASRSNVEFLSTGGNLGYG
 TAINIAARSLRARREAGEIDGFEFLVSNPDVVFDEDSIDQLECAKRHPEAGAVGPLIRE
 ADGSAYPSARAVPTLANGIGHALLGAVWKSNPWSAAYRDEDMDTERTAGWLSGSCLLLR
 WDAFDRVGGFDERYFMYMEDVDLGDRLVRAGFTNVFCPSAQIIHAKGHVAGKNPENMLPA
 HHESAYRFQADRLAKPWQAPIRLALRIGLKLKLRAGVAVGVSKMRTKAS

>RXN01406 TRANSLATE of: rxn01406.seq check: 5966 from: 1 to: 1023
 MTIRIGLVGYGVGGRLFHTPYIQASTHCELVGVVARSEGTKAAVAEDLPDVAIVGSLTEL
 LELGVDAVVISTPPATRRELALAEINAGVAVVADKPFAPSADAMELVEAAEKAGVLLNV
 FHNRRNDTHIVTALGIQEELGAMRGLDLRLDLIEPDSLEAGPEGGLLRDLGSHVVDQTLV
 LMGPATSVTAQLGSIDLPEGPTNARFRIVLEHESGAVSHISASKIDRLESWEIRLVGERG
 SYVSNYTDVQTVAIKQGLRPTNDREHWGYESEERWGLVTDEGSKVIPSAQGDYTRFYDA
 FALAVENGGAGPVPAREGVAVLKVLDAVAQSAAEKRTIELS

>RXN01468 TRANSLATE of: rxn01468.seq check: 6994 from: 1 to: 825
 MTVNISYLTDMDGVLILKEGEIIPGADRFLQSLTDNNVEFMVLTNNSIFTPRDLSARLKTS
 GLDIPPERIWTSAATAHFLKSQVKEGTAYVVGESGLTTALHTAGWILTDANPEFVVLGE
 TRTYSFEAITTAINLILGGARFICTNPDVTGSPSPGILPATGSAALITAATGAEPYYIG
 KPNPVMRSALNTIGAHSEHTVMIGDRMDTDVKSGLLEAGLSTVLVRSGISDDAEIRRYPF
 RPTHVINSIADLADCWDDPFGDGAFHVPDEQQFTD

>RXN01498 TRANSLATE of: rxn01498.seq check: 692 from: 1 to: 1563
 MIKRLPLGPLPKELHQTLTDLTANAQDAKVEVIAPFTGETLGFGFDGDEQDVEHAFALS
 RAAQKKVWHTTAVERKKIFLKVHDLVLKNRELLMDIVQLETGKNRASAADEVLDVAITTR
 FYANNAGKFLNDKKRPGALPIITKNTQQYVPKGVVGQITPWNYPPLTLGVSDAVPALLAGN
 AVVAKPDLATPFSCCLIMVHLLIEAGLPRDLMQVVTGPGDIVGGAIAAQCDFLMFTGSTAT
 GRILGRMTGERLVGFSaelGGKNPLIVAKDADLDKVEAEPLQACFSNSGQLCVSTERIYV
 EEDVYEEVIARFSKAAKAMSIGAGFEWKYEMGSLINHAQLDRVSTFVDQAKAAGATVLCG
 GKSRPDIGPFFYEPTVLADVPEGTPLLTEEVFGPVVFIKVVATLEEAVDKANGTPYGLNA
 SVFGSSETGNLVAGQLEAGGIGINDGYAATWASVSTPLGGMKQSGLGHRHGAEGITKYAE
 IRNIAEQRWMSMRGPAKMPRKVYSDTVATALKLGKIFKVL

>RXN01550 TRANSLATE of: rxn01550.seq check: 138 from: 1 to: 1512
 VQLNDTHPVLAIPELMRLMDEHDMGWEESSWAIIVFKTFAYTNHTVLTEALEQWDQQIFQQ
 LFWRVWEIITEIDRRFRRLERAADGLDEETIDRMAPIQHGTVMHAWIACYAAYSINGVAAL
 HTEIIKAETLADWYALWPEKFNNKTNGVTPRRWLRMINPGLSDLRLSGSDDWVTDLDE
 LKKLRSYADDKSVLEELRAIKAANKQDFAEWILERQGIEIDPESIFDVQIKRLHEYKRQL
 MNALYVLDLYFRIKEDGLTDIPARTVIFGAKAAPGYVRAKAIKINSIADLVNNDPEVS
 PLLKVVFFVENYNVSPAHLIPASDVSEQISTAGKEASGTSNMKFMNGALTTLGTMDSGANV
 EIVDSVGEENAYIFGARVEELPALRESYEPYELYETVPGLKRALDALONGTLNDNNSGLF
 YDLKHSILHGYGKDASDTYYVLGDFADYRETRDRMAADYASDPLGWARMWINICESGRF
 SSDRTIRDYATEIWKLEPTPAVKK

>RXN01554 TRANSLATE of: rxn01554.seq check: 7857 from: 1 to: 2142
 LKKHVTSAVTAVVTAFAALGLSIAVSPAVAQVANPAPDLSAPYTWVEEFDSEDALKGW
 NIFRQPDYGSdkVLYTEDALSIEDGKLTITTQRHCVDDEFAISDPVNRGKLNDSSTAQVEP
 CAPGQFEKFTSARIVTPKIARGEFDLSVTATLNTGGVEGVRSIAIWMQNGEQACSSATNNG
 LYGELDLVEHFSYDLRSPWSPSNTHLGCDPESVNGTNRAPRELKLDSELDGVEHTWTVST
 TRDGVEYFIDDEAINRQSWRNDVTLGHAIEDDFGISAQTFDEIVDREWTLTLNQKVESAD
 WAKPRSSEEDFPVRSMVIDRIEVTGSPAVSEDTMPMDTTQLLTQDTLEYLGRMPVLERYE
 PASADFADGRRPSWNYFNLKESWQNPELEQRPEAVEFVDGRMDIVTRRHCLATTDIATP
 ENAQEPCAPGEVTRYSSARVHLPEIPAGNFRLTVRARAQSEELVDGVRPAIWMQNNTNF
 CADNDGRPYGELDITEFYSSRVNTQYSAVHLGCAGNRPEMKLRQMEMEESMFGDWDHGWV
 EVFDGQIVFTIDGKAVTSSGKDVFGNSVTPAAAPLRPAHFKLSEEEYREVIGQPWHLILN
 TMVEQSGKDSWITAVDNNEAFPEHRFQIDHVAVDIESDSVDNVWPDAAANEIPDNVGIEDS
 DDGSDLEVGSSTGSSAETVSWISLFTALSSLVFTLALNQEALQNLINQFMRQFK

>RXN01562 TRANSLATE of: rxn01562.seq check: 4942 from: 1 to: 1908
 MGILNSISTPADLKALNDEDLDALAKEIRTFVLVDKVAATGGHLGPNLGVVELTIGLHRVF
 DSPQDPPIIFDTSHQSYVHKILTGRAKDFDSLQKDGSLGYTCRAESEHDWTESSHASAL
 SYADGLSKAKQLDGDTHSVVAVVGDGALTGGMCWEALNNIAAGKDRKVVVVVNDNGRSY
 SPTIGGFAENLAGLRMQPFYDRFMEKGKTSLSKSMGWVGERTFEALHAFKEGVKSTVIPT
 MFPELGMKYVGPVDGHNQKAVDNALKYAHDYDGPIIVHVMVTEKGRGYAPAEQDLDELMS
 TGVIDPLTGAPKSASKPGWTSVFSDELVKIGAQNENNVVAITAAMAGPTGLSKFEANFPNR
 FFDVGIAEQHAVTSAAGLALGGKHPVVAIYSTFLNRAFDQLLMDVGMLNQPVTLVLDRSG
 VTGSDGASHNGVWDMALTSIVPGVQVAAPRDEDSLRELLNEAISIDGPTVVRFPKGDLP
 TPIVAIDTLEDGVDVLAYEDATDVESTDDAPSVLIIAVERATVALDVASRIKQHGTVNT
 VVDPRWIVPIQSLVALSDDHDLVITIEDGVIHGGVGSLLSDALNASEVDTPRRQIAVPQ
 KYLDHASRNEVLADYGLDADGIETTIVVGWLDLSLGE

>RXN01569 TRANSLATE of: rxn01569.seq check: 9598 from: 1 to: 1359
 MEYKGQLTSHTTIDIEGLLVDFPVHGDNRGWFKENWQRTKMTNLGLPDPFGPVQNNMSFNA
 TAGTTRGMHAEPWDKFSVAVGVSFGAWVDLRAGSSTYGNVVTQKITPDVGIVVPRGVAN
 GFQALEDGTLTYLVNDHWSFDAHYANVNLNMIDWPLPITEISEKDKKHPALIDATPLPA
 RKVLVVGAGGQLGTALRAQFPDAEFVTRQELDITSDLTEARAWKQYSTIINAAAYTAVDQ
 AEHDRAAWDINAAVANLATIARDNNLTLVHVSSDYVFDGAAESYDENAPFSPLGVYGQ
 SKAAGDIGDTTAPRHYIVRTSWVIGDGNFVRTMKSLEDERGIAPSVVDDQIGRLSFTEDI
 AAGIAHLLEVGAAYGTYNLTNTGEPASWADVARAVFSDPTKVTGVSTAIEYFANKDAAPRP
 LNSVLDLGKIEATGFSAPTWQTRLNDYKELSK

>RXN01580 TRANSLATE of: rxn01580.seq check: 9660 from: 1 to: 717
 MYKNMHIVAHARGAEDLHLENTMTAFQAAAPADAFELDIHATADNQVVVIHRTAARVAAP
 DSLHRDTPVARLSAAQIKEITLIDGSPVPTLEEVLQTSPLPIQVEIKSAGAVPAAAALLQ
 KYPEHLERLLFISFIDAALVEIVDRLPEARVGILRDASMDLRLDYIPLKNVGAILPSW
 KALNVAISIADLHTKGIVGCWTIRDENAFGIAQQAGVDYATVSDPSRFLAPSPAGELHW

>RXN01593 TRANSLATE of: rxn01593.seq check: 9774 from: 1 to: 867
 MYVTNNASRAPEVVAAQLREIGLADTTADNVMTSAQAACKMAAEKIPAGSKVYVLGSESF
 RELATEAGFVVVDSADDKPVAVLHGHNPETGWAQLSEAALSINAGAQYFASNLDSTLPM
 RGRHIGNGSMVAAVVNATGVKPLSAGKPGPAMFYAGAETLNSSKPLAVGDRDLTDIAGGN
 AAGMDTFQVLTGVSGYYDLVRAIPRAAPHLYRHLDAGSLQSRGQARCPGRFFSAYRRR
 HPGHFRRRCRRNSGCSTPHCVGCGLGGHRAVTEVRADSEVAATALQSWW

>RXN01630 TRANSLATE of: rxn01630.seq check: 5194 from: 1 to: 1077
 MSDQKIVVGLLGITHPHASARVRALREIDGVEVVAAADTDSRLQYFTDKYDVEPREIDDV
 LNDDRINAIMVHSSKSKDMVPHAKRALAAGKSVVVEKPGGGTVADLEELLALKEAADPQRI
 VQVGYNVRLSESVQRLKELLDAGLIGEVVSVQARGAAKVGHEHTEHLNQPADMGVWLIL
 GCHMLDALVEVFGAPESVNARVHKTAKLSDDTSRSDSASALLYYPDFSVSFSFDGHDDLE
 WFESSRLTVYGTGKMIEAGILPQTLRVYLNESRQGWPPQGWTEWTQSYFTPPFARTESNKF
 SELPELENISNFRTEMQGWNSIRTGSRNVAPVEDALTVARIVSACYESDNNQGISVNI

>RXN01631 TRANSLATE of: rxn01631.seq check: 4404 from: 1 to: 879
 MKPQLIASCWTSAGDAAPDRDDLSSPVAIDERIALVAETGWAGIGLVHADLIKARDTIGY
 EELRRRIHAAGIEIIIEVEFLNGWWATGAERQESDAVRADLFAAAQALGSPHIKVGAGEGT
 NGVVPPIAHMASAFTDLAAEAHGVKLALAEATPFSLKTIYDALEVSHSDSPSAGLMVD
 IWH TAKIGIPNDELWRNIPLSKVNAVEVDDGFIDTPIDLFDDSTNRRAYCGEGEFDPASF
 IRGAIDAGWTGAYGVEIIISAEHRSLPVKEGLQRAFDTTIAAFEQAARLAPSTN

>RXN01695 TRANSLATE of: rxn01695.seq check: 9144 from: 1 to: 1500
 MSDSPKNAPRITDEADVVLIGAGIMSSTLGAMLRQLEPSWTQIVFERLDGPAQESSSPWN
 NAGTGHSALCELNYTPEVKGKVEIAKAVGINEKFQVSRQFWSHLVEEGVLSDPKFINPV
 PHVSFGQADQVAYIKARYEALKDHPFLFQGMTYADDEATFTEKLPLMAKGRDFSDPVAIS
 WIDEGTDINYGAQTKQYLDAAEVEGTEIRYGHEVKSIAKADGAKWIVTVKNVHTGDTKTIK

ANFVFGAGGYALDLLRSAGIPQVKGFAGFPVSGLWLRCTNEELIEQHAACKVYGKASVGA
PMSVPHLDTRVIEGEKGLLFGPYGGWTPKFLKEGSYDLFKSIRPDNIPSYLGVAQQEF
DLTKYLVTEVLKDQDKRMDALREYMPEAQNGDWETIVAGQVRQVIKPAFGFPKFGSLEFGT
TLINNSEGTTIAGLLGASPGASIAPSAMIELLERCFCGDRMIEWGDKLKDMPISYGGKLASE
PALFEQQWARTQKTLKLEEA

>RXN01744 TRANSLATE of: rxn01744.seq check: 8546 from: 1 to: 1539
VDVVDIARWQFGITTVYHFIFVPLTIGLAPLVAIMQTFWQVTGKEHWYRATRFEGTVLLI
NFAVG VATGIVQEFQFGMNWSEYSRFVGDVFGGPLALEGLIAFFLESVFLGLWIFGWGKI
PGWLHTASIWIVAIATNISAYFIIIVANSEFMQHPVGAEYNPETGRAELTDFWALLTNSTAL
AAFPHAVAGGFLTAGTFVLGISGWIIIRAHRAKKAESIESKSHMRPALWVGWWTTVV
SSVALFITGDIQAKLMFVQOPMKMASAESLCETATDPNFSILTIGTHNNCDTVTHLIDVP
FVLPFLAEGKFTGVTLOQVNLQAAAEQAYGPGNYSPLNFVTYWSFRAMIGLMLGSLAIA
AIAWLLLRKKRTPTKIARLFQIGSLIAIPFPFLANSAGWIFTEMGRQPWVVPHPNPEAG
DARTEMIRMTVDMGVSDHAPQVWLTLLIGFTILYLILFVWVWLIRRAVLIGPPEEGAPS
VEAKTG PATPIGSDMPMTPLQFTAAAPTTEKE

>RXN01752 TRANSLATE of: rxn01752.seq check: 3364 from: 1 to: 1461
MMEQDLSYREILPLNASEEKKKAALIDAIEGLRVRDPLLSASIAFTRGQKVAFIIVVVG
ILMLIFARQAALIGLSATCTFMYLITLLDRFIMFSRGIRAESIIQVSDDEALAFPEDKLL
TYTVLVPAYGEPEVIAQLLASHMAFDYPKHLQVLLMLEEDDLPTIAAAEAAGVDQVATI
IKVPPAQPRTPKPKACNYGLHFATGEIVTIFDAEDMPDPLQLRRVVVAFERSASNTVCVQS
RLSYRNARQNLTAWFTIEYDVWFNLLPGVMRMNAPVPLGGTSNHLLTGVLKDLGAWDP
ENVTENADLGVPIAAKGYSTAVLDSVTWEEANSDTINWLRQSRWYKGYLQTLVYMRRP
KWLVLQELGIIPAVRFTFLMAGTPIIAVLNLLFWYLSLTWILGQPGTIEQMFPFPAVYYPAL
VCLLVANAATIFMNLIGCREGRDPLLLIAVLTFPLYWLLMSIAALKGTWQLITRPSYWEK
TAHGLEA

>RXN01884 TRANSLATE of: rxn01884.seq check: 9417 from: 1 to: 1890
VTAIELMPVHQFLQDDRLRDLGMRNYWGYNSFGFFAPYNDYAANKNPGGAVAEFKGLVRS
YHEAGLEVILDVVYNHTAEGNHMGPTIAFRGIDNEAYYRLVEGDRRHMDYTGTGNSLNV
RDPHSLQLIMDSLRYWVTEMHVDGFRFDLASTLAREFDDVDRLATFFDLVQQDPVVSQVK
LIAEPWDVGEQGYQVGNFPPLWTEWNGKYRDTVRDFWRGEPATLGEFASRLTGSSDLYAN
NGRRPTASINFVTAHDGFTLNDLVSYNEKHNMANGEDGRDGESHNRSWNCGVEGPTDDPE
IMQLRAQQRRNFLTLLLSQGTPLSHGDEMARTQNGNNNVYCQDNELAWVNWDAEENA
DLVSFTRLLRIRANHPVFRRRQFLAGGPLGADVDRDIAWLVPNGTLMTQDDWDFAFGK
SLQVFFNGDAIEEPDYRGQKIHDDSFILMFNAHFEPIDFNLPPEHFGMKWLLVDTTEAV
GHPLEDLTIEAGGTITVPARSTMLLRQVEAPDYTKLEEKIAAEKREQELAAEKEAAEKRE
LELAAAKEAEDAALHLAAERASTQEAELAHQHGADAIADAEVAEPPQELPQDEVAEEVE
TEPDTEPDTESDSEQAEVASEEPEADEEEK

>RXN01891 TRANSLATE of: rxn01891.seq check: 8435 from: 1 to: 864
GGHYGLPFARSTVLFYYNKDLWAKAGLEDGRGPESWEEFSEWGPKLQEAAMDSGFAHGWGDA
TNYLSWTFEGPMWSLGGNYSEGWESRLTTPETIRAVEWLKSTVDEGFATVSTDVTNEFAT
GLIGSCIQSTGDLSSVAGAASFWDGVAALPNPTGEGACPTGGAGLGIPSGISEQRQDNAL
KFIDFLTNAANTGYWSRETGYVPVRKDAASDPDHAAFLLENPAYNVAEQLPDTRSQDNF
RVLLPNGDRTIGDALEKICLTGADIDVTLAEVETKLNTIYTRDIEPLI

>RXN01895 TRANSLATE of: rxn01895.seq check: 607 from: 1 to: 951
MSVNPTREPGRRHHVVVIGSGFGGLFAAKNLAKADVDTLIDRTNHHLFQPLLYQVATGI
LSSGEIAPSTRQILGSQENVNVIKGEVTDINVESQTVTASLGEFTRVFEYDSLVLVAGAG
QSYFGNDHFAEFAPGMKSIDDALEIRARIIGAFAERAEICEDPAERERLLTFVVVGAGPTG
VELAGQLAEMAHRTLAGEYKNFNTNSAKIIILLDGAQVLPFPFGKRLGRNAQRTLEKMGVN
VRLNAMVTNVDATSVTYKTKDGEEHTIESFCKIWSAGVAASPLGKLVAEQTVETDRAGR
VMVNDDL SVGDQKNV FV

>RXN01927 TRANSLATE of: rxn01927.seq check: 8048 from: 1 to: 1380
MALVLGIDSSTQSKALLVDAATGQVIDEGRASHPSGSEVDPRAWIAALDQATEGLLERA
DAVSIAGQQHGMVALDENDEIVRPALLWNDTRSAQAALDLNEEIGGDQAAVDATGSVYVA
SLTATKMRWMRDHEPENARTASVMLPHDFLTWHLMGRGRKVTDHGDASGTGYSTRDRA

WRTDLAALALGHEVELPELLAPNAIAGTTPGGVKVAAGTGDNAAAALGLDLQPGDVSVSI
GTSGVAGMTVQHSVHDPSGLVTGFADATGAYFPLACTLNGAPVLEFGRRILGVWEFEFDA
LALAAQPGSGGVTLQPYLEGERTPNRPAARGVLAGLNCATTREDFARATVEGLLLALDDA
VTALVEATGVPVQRIQLIGGGARSQAVREIAPEIFGHEIVVPEPAEYVALGAARQAAWAL
SGEATPPQWPTPGSDPHRAPKNTELSTRYAKLRAATQGWY

>RXN01952 TRANSLATE of: rxn01952.seq check: 6335 from: 1 to: 1713
MTQPGQTTTTSHEAIDAFKRIVGDEHVLTSERATMPFSKGYRFGGGPVFAVVRPGTLVEM
WRALQVSDNNLIVIPQASNTGLTGGSGPGFQDYDRPIVIISTHRIDEVHLINDAREAIS
LAGTPLTHLTDALAKHQREPHSVIGSTSIGASVIGGIANNSSGGSQIRKGPFTTREAIFAR
VNDDGKVELVNLHGLISLGDDPEVALDRLQRGEWSPEDVTPAPEDSNETEYAEHLRKIVPS
PARYNANPEYLFASGSAGKLMVFAVRTRTFPREVHPTVFYIGTNNTHELEEIRRLFLEA
DMPLPISGEYMGRSAFDLAKEYGKDTFVFLKFMSPALQTRMFSFKTWANGLFSKIPGIGP
TFADTVSQAMFVLPNQLPKRMMEYRNRFEHLLLTVSESQKAASEKMLKEFFAEPEHTG
EFFICTSDEEKASLNRFGAASAATRYAALKRRHIAGLIPIDVALRRDDWNWLEVLPEEI
DDQLEVKAYYGHFFCHVMHQDYVAKQGVLDLEALHDRIQHLLEERGAKLPAEHNYGRMYKL
PESMEEHFKELDPTNTFNAGIGGTSPHKDWA

>RXN02036 TRANSLATE of: rxn02036.seq check: 338 from: 1 to: 381
VHIPFGHLADTVSWDCGGGSCATNDLVSLFMPAAFMSTLAACVFGAWAIGLIAPALFIAV
TAWAFRSGVQAAIADGYTSATSVMGFEMTVSLILFIIAGLCFLGWIPMFINNRRQVARKVRE
RAAGLSN

>RXN02046 TRANSLATE of: rxn02046.seq check: 7831 from: 1 to: 417
MKETLTTLTGLTHQMTYIVPANRTVPHLLPEAAEFETMPDVLATGYMVGIIEWACMELLRPH
LDDGEISLGHVNFSHAAPTVPGSTVTIDVEVTEINRRAVTFNITADEFATISTGTHQR
GVVNREKFVSRLEAPKEN

>RXN02100 TRANSLATE of: rxn02100.seq check: 3527 from: 1 to: 2325
LGRINAEQNLSEYLSDKLWYQDTADATDAVGDPVAVYFSMEFGIHPSLPIYSGGLGVLA
GENMKSASDLGVPLIGVGLLYTHGYFTQSLSGDGWQQEYKYHDPALPIEAVKDKNGEQ
VTVSVTPGAQEVKIALWVANVGRIPLLLLDTNIEANPEELRNVTDRLYGGDNEHRIKQE
LVLGVGVRVAVNAFCEARGLKRSSVAHLNEGHAFLTLERIRERIAEGMEYPAAFEQVRA
SNIFTTHTPVPAGIDRFDMEMVRRYLGGGQPEDQQLCVGVPIEKALELGQESDPHRFNMA
HMGLRASQHANGVAKLHGEVSRDMFAGLYPGYEPREVPIGHVTNGVHLPTWVKPEMKELI
DRVTTGGADLAVADSWSNPQAVESEKIWKVRNKFRADLVEVARAATAKSWSHRGHTAEALA
WTSRVLDPNVLTIGFARRVSTYKRLTLMLRNPERLRSILLNEERPQFVIAGKAHPHDMG
GKKLMQEIIVHFADQAGVRDRFLFLPDYDINLASYLISGADVWLNPNVPRPQEAASGTSGMKA
VMNGGLTSLISDGGWDEMPKETTGTWTIPTVESQDLECRDHLESQALYDLLENEVAPLFYK
RDKNIGIPQDWLDLVRESWTTLSMPMTSTRMVRDYTTQYYRPTKHQAELIAQPAEAADYAA
WLEHIKAEWAGVKVSDLKISESAITAQELEVSVRVDSGSLNDDFQAQALFGALGHNGDI
EDPEITVLTTPRGDGAAYAAKVSTDLPNGYGITARVVPNNRMLVSPAETRLITYLEN

>RXN02125 TRANSLATE of: rxn02125.seq check: 5612 from: 1 to: 801
MVATSQFIDDSEAAQAVRAAIVAGYRNIDTALAYGNERGVGEGIRTAGVPREELFISTKL
AAEIKDYDGAVAAIDESLAKIGLDYVDLMLIHSPQPWSDFRGGDYSEGNREAWRALEDAY
KAGKIRSIGVSNFLEADLENILDSATVAPHVNQLLVHVGNTPSELISFCDSKGILVEAYS
PIAHGEMLNQVQKAIADKYNVSIPLQCIQRYTIQLGTVSLPKTANPDHMSSNAQIDFEIS
EEDMAALQEVRTARDYGEHSGFPVYSGK

>RXN02206 TRANSLATE of: rxn02206.seq check: 8771 from: 1 to: 936
MVGSSGLRVSRGLGLTSTWGSGETELAEAGDIFKAFINSGGTLIDVSPNYTTGVAEEMLGT
MLDAEVSRSRAVVISSAGVNPALPLGRRVDCSRRNLIAQLDVTLRALNTDYLDLWSVGWY
DEGTPPHEVADTLDYAVRTGRVRYAGVRGYSGWQLAVTHAASNHAAASARPVVVAQNEYS
LLERRAEQELLPATQHLGVGFFAGAPLGQGVLTAKYRSEIPHDSRAASTGRDAEVQSYLD
NRGRIIVDALDTAAKGLGISPAVTATTWVRDRPGVTAVIVGARTHEQLSHLLKAESVTLT
TPITQALDDVSL

>RXN02209 TRANSLATE of: rxn02209.seq check: 8467 from: 1 to: 1671
TESTVVPISIAGPKRPQDRILLSEAKEQFRKDLPTYTDDAVSVDTSSIPATRMVNEGGGQPE

GGVEADNYNASWAGSGESLATGAEGRPSKPVTVASPQGGEYTI DHGMVAIASITSCTNTS
NPSVMIGAGLIARKAAEKGLKSKPWVKTICAPGSQVVDGYYQRADLWKDLEAMGFYLSGF
GCTTCIGNSGPLPEEISAAINEHDLTATAVLSGNRFEGRISPDVKMNYLASPIMVIAYA
IAGTMDFDFFENEALGQDQDGNVFLKDIWPSTEEIEDTIQQAISRELYEADYADVFKGDK
QWQELDVPTGDTFEWDENSTYIRKAPYFDGMPVEPVAVTDIQQARVLAKLGDSVTTDHIS
PASSIKPGTPAAQYLDHGVVERHDYNSLGSRRGNHEVMMRGTFANIRLQNQLVDIAGHYT
RDFTQEGAPQAFIYDASVNYKAAGIPLVVLLGGKEYGTGSSRDWAAKGTNLLGIRAVITES
FERIHRNLI G MGVVPLQFPAGESHESLGLDGTETFDITGLTALNEGETPKTVKVTATKE
NGDVVEFDAICPHRHR

>RXN02213 TRANSLATE of: rxn02213.seq check: 8081 from: 1 to: 774
VTEKNSFNASTLEVGDKSYDYFALSAPVGMKLPYSLKVLGENLLRTEDGANITNEHI
EAIANWDASSDPISIEIQFTPARVLMQDFTGVPCVVDLATMREAVAALGGDPNDVNPLNPA
EMVIDHSVIVEAFGRPDALAKNVEIEYERNEERYQFLRWGSESFSNFRVPPGTGIVHQV
NIEYLARVVFNDNEGLAYPDTCIGTDSHTTMENGLGILGWGVGGIEAEAAMLGQPVMSMLIP
RVVGFKLTGEIPVGVAT

>RXN02326 TRANSLATE of: rxn02326.seq check: 550 from: 1 to: 816
MLGRPTKVTPSSKVVGDALHLVGAGVDPADFAADPQKYDIPDSVIAFLRGELGNPPGGW
PEPLRTRALEGRSEKAPL TEVP EEEQAHL DADDSKERRNSLNRLLPKPTEEFLEHRRR
FGNTSALDDREFFYGLVEGRETLIRLPDVRTPLLVRDLAISEPDDKGMNRNVVANVNGQIR
PMRVRDRSVESVTATAEKADSSNKGHVAAPFAGVVTVTVAEGDEVKAGDAVAII EAMKME
ATITASVDGKIDRVVPAATKVEGGDLIVVVS

>RXN02327 TRANSLATE of: rxn02327.seq check: 173 from: 1 to: 960
LLATRVRSFALKPAEAVAKLTPELLSVEAWGGATYDVAMRFLFEDPWDRDLDELREAMPN
VNIQMLLRGRNTVGYPYPSVCRAFVKEAASSGVDFRIFDALNDVSQMRPAIDAVLET
NTAVA EVAMAYSGDLSDPNEKLYTLDYYLKMAEEIVKSGAHILAIKDMAGLLRPAAVTKL
VTALRREFDLPVHVHTHDTAGGQLATYFAAAQAGADA VDGASGTTVWHHLPSHPLSAIVA
AFAHTRRDTGLSLEAVSDLEPYWEAVRGLYLPFESGTPGPTGRVVRHEIPGGQLSNLRAQ
ATALGLADRFELIEDNYASR

>RXN02328 TRANSLATE of: rxn02328.seq check: 5494 from: 1 to: 1596
VTAITLGGLLKGIITLVSTHTSSTLPFAFKILVANRGEIAVRAFRAALETGAATVAIYP
REDRGSFHRSFASEAVRIGTEGSPVKAYLDIDEIIGA AKKV KADAIYPGYGFLSENAQLA
RECAENGITFIGPTPEVLDTGDKSRAVTA AKKAGLPVLAESTPSKNIDEIVKSAEGQTY
PIFVKAVAGGGGRGMRFVASPDELRLKATEASREAEAAFGDGAVYVERAVINPQHIEVQI
LGDHTGEVVHLYERDCSLQRRHQKVVEIAPAQHLDPELDRICADAVKFCRSIGYQGAGT
VEFLVDEKGNHVFIE MNPRIQVEHTVTEEVEVDLVKQMRLAAGATLKEGLTQDKIKT
HGAALQCRTITTEDPNNGFRPDTGTITAYRSPGGAGVRLDGAAQLGGEITAHFDSMLVKMT
CRGSDTFETA VARAQLAEFTVSGVATNIGFLRALLREEDFTSKRIATGFIADHPHLLQA
PPADDEQGRILDYLDVTVNKP HGV RPKDVAAPIDKLPNIKDLPLPRGSRDR

>RXN02333 TRANSLATE of: rxn02333.seq check: 9284 from: 1 to: 915
MNLFSNGVDVGRRRQAFKAALAAPHIARLPGAFSPLIARSIEEAGFEGVYVSGAVIAADL
ALPDIGLTTL TEVAHRARQIARVTDLGVLVADDTGFGEPMSAARTVAELEDAGVAGCHLE
DQVNPKRCHLDGKEVVRTDVMVRRIAAV SARDPNFVICARTDAAGVEGIDAAIERAK
AYLDAGADMIFTEALHSEADFRYFRHAI PDALLANMTEFGKTTLSADVLEEIGYNAVI
YPVTTLRIAMGQVEQALAEIKEHGTQEGWLD RMQHRSRLYELLRYEDYNVFDQHIFTYRK
GENNE

>RXN02399 TRANSLATE of: rxn02399.seq check: 7887 from: 1 to: 1344
VVGTAHCESALKEVTLM SNVGKPRTAQEIQDWD TNPRWNGITRDYTADQVADLQGSVIE
EHTLARRGSEILWDAVTQEGDGYINALGALTGNQAVQQVRAGLKAVYLSGWQVAGDANLS
GHYTPDQSLYPANSVPSVVRINNALLRSDEIARTEGDTSDVNWVPIVADGEAGFGGAL
NVYELQKAMIAAGAAGTHWEDQLASEKKCGHLGGKVLIPTQQHIRTLSARLAADVANTP
TVVIARTDAEAATLITSDVDERDQPFITGERTAEGYHVKNGLEPCIRAKSYAPYADMI
WMETGTPDLELAKKFAEGVRSEFPDQLLSYNCSPS FNWSAHLEADEIAKFQKELGAMGFK
FQFITLAGFHSNLNMGFDLAYGYAREGMTSFVDLQNREFKAAEERGFTAVKHQREV GAGY
FDQIATTVDPNSSTTALKGSTEEGQFHN

>RXN02404 TRANSLATE of: rxn02404.seq check: 8768 from: 1 to: 2217
MTEQELLSAQADNAGTDSTERVDAAGMVAQVLYDFVTEAVLPRVGVDAEFWSGFAAI
ARDLTPRNRELLARRDELQMLIDYHRNNSGTIDQEAYEDFLKEIGYLVEEPEAAEIRTQ
NVDTEISSTAGPQLVVPILNARFALNAANARWGSYDALYGTNAIPETDGAKEGKEYNPV
RGQKVIEWGREFLDSVPLDGASHADVEKYNITDGKLAHIGDSVYRLKNRESYRGFTGN
FLDPEAILLETNGLHIELQIDPVHPIGKADKTGLKDIVLESATITIMDFEDSVAAVDAED
KTLGYSNWFLNTGELKEEMSKNGRIFTRELNKDRVYIGRNGTELVLHGRSLLFVRNVGH
LMQNPSILIDGEEIFEGIMDAVLTTVCAIPGIAPQNKMRNSRKGSIIYVKKQHGPEEVA
FTNELFGRVEDLLDLPRHTLKVGVMDERRTSVNLDASIMEVADRLAFINTGFLDRTGDE
IHTSMEAGAMVRKADMQTAPWKQAYENNNVDAGIQRGLPGKAQIGKGMWAMTELMAEMLE
KKIGQPREGANTAWVPSPTGATLHATHYHLVDVFKVQDELRAAGRDRSLRNILTISTAPN
TNWSEEEKKEEMDNQCQSILGYVVRWVEHGVGCSKVPDIHDIDLMDRATLRISSQMLAN
WIRHDVVSKEQVLESLEMAVVVDKQAGDEAYRDMAPKYDASLAFQAADLIFEGETKSP
SGYTEPILHARRREFKAKN

>RXN02434 TRANSLATE of: rxn02434.seq check: 219 from: 1 to: 1650
MRTFAAYIAIDGLSFSYPNTHVLSDISLTVANGDIAGLIGENGAGKSTLLSLIAGVMEPD
QGRIYLPERTGFIAQETDLPFEQPVQSLIDAAVAPVRAVDAAITDLSTKLGDASLSAEEQ
AQVATDFDAALGAEEELGLWELDARIETIVAGLGLAEVDRSTPIGELSGGQRRRFALAAL
LLEPHDALIFDEPTNHLDDTAVDFLISEISRFGKGPVLIASHDRFFLDSVCTELIDLDPAL
GPEGGSGEVVKQAVSFGGGFSEYIKERETRRTWAQLYTAQETEREKLEETTGTTESDIF
HSSVSKSEAKITAKFYADRAAKTQGNRVRSAKNRLKELERYEIPAPPKPLEFQGIPEASG
NGHGETLEVRAIAVENRLQPLTFHIDPGDHILVEGPNVGKSTLLSVLEGVLEPTEGELI
VPEGLKVARLKQDDWTEKQLNTPVDELFAALSKGPVGLNLVEMGLLRETSQSSPLRALS
LGQRRRVSLGLILASPPDLLLDEPTNHLSLALSEELESAIEKFPGRVILASHDRWIRKR
WTGKKISLSR

>RXN02461 TRANSLATE of: rxn02461.seq check: 9219 from: 1 to: 408
MRGLIVDYAGVLDGTDQRRWRNLLAAAKNGVGTVILSNDPGGLGAAPIRELETNGVV
DKVLLSGELGVEKPEEAFAQAAADAIDLPMRDCVLVDDSI LNVRGAVEAGLVGVYQQFD
RAVVEIVGLFGLGEF

>RXN02480 TRANSLATE of: rxn02480.seq check: 3686 from: 1 to: 1656
MTTDDHKQLGIMYIIMSFSFFFLGGLMALLIRAEFTPLQLSNEQFNQLFTMHGTVML
LLYGTPIVWGFANYVLPQIGAPDVAFPRLNAGFWITTVGGVAMLTGFLTGGGAADFGW
TMYSPLSDAIHSPGLGSDMWIVGVGATGIGSVASAINMLTILCLRAPGMTMFRMPIFTW
NIFVSVLALLIFPLLLAAALGVLYDRKLGGHLYDPANGGSLWQHLLFWFFGHPEVYVLA
LPFFGIVSEIIPVFSRKPMFGYVGLIFATLSIGALSMVWAHMFVTGAVLLPFFSFMTE
LISVPTGVKFFNWVGTMMWKGHITWETPMIWSVGFMTFLFGGLTGIMLASPLDFHLADS
YFLIAHFHYTLFGTVVFASCAGVYFWFKMTGRMMDERLGIHFWLTFVGFHGTFLIQHW
VGNMGMPRRYADYLDSDGFTIYNQISTVFYFLLGLSVIPFIWNVFKSWRYGELVTVDPPW
GYGNSLEWATSCPPPRHNFASLPRIRSERPAFELHYPHMIERMRAEAHTGHDDINAPEL
GTAPALASDSSR

>RXN02554 TRANSLATE of: rxn02554.seq check: 9544 from: 1 to: 624
MSHTKPSIAILGAGRVGSSSLARSABAAGYEVKVGAGSVAVDKIALTAELMPGAVPSTADQ
AVKDADIVFLAVPLHKFRSVNPATLEGKIVIDTMNHVVPVNGELEEIDQDPRSTSEIIAE
FFAGSTMVKSFNHIGYHEIEQDAGTGRAIAYATDDVDAGAQAQLIKSFGFVPLNIGALE
NGRILEPGQEAFAHLNKDSRLELVNQR

>RXN02556 TRANSLATE of: rxn02556.seq check: 1750 from: 1 to: 1158
LIVSTQPITDRSALSAEHAIEVIKATLPLVGGKINEITPVFYNKMFAAHPELIANTFNRRGN
QKQGDQKALAASIATFATMLVTPDAPDPVQLLSRIGHKHVSLGITADQYDIVHEHLFAA
IVEVLGAETVTAPVAEAWDAVYWIMANVLIGFENNLYASNDLEPGDVFREVTVTAKKQLS
ATVWEYTLAGELVAPEPGQYTSIGVVLDDGARQLRQYSLGGSDEYRIAVEDNGEVSGF
LRDRVSVGDKIEATIAAGDLVLNKDTPVVLISQIGISTPMVGMLAGMNPEDVVLHAD
QAESTYAQVEEVQGLVEKLPKAAFEIFYRDNDQWLEVAGRIPSGASVYLCGGVEFLKNVR
EQIEALDEQPRDVFELFAPNDWLIS

>RXN02560 TRANSLATE of: rxn02560.seq check: 4626 from: 1 to: 867
MQGNSLNLADNSERKKPMPSPGELLAARYGQPATWTPPQWNETLDVIHQHRSVRRWLDKP

VDDDTIRTIISAAQSAGTSSNKQVISVIVVKDPELRKGLAGITRQMFPHLEQVPAVLIWL
IDYSRISAVAAREDLPTGALDYLDEAAWGFLDAGIAAQNAIAAESLGLGTLYLGSVRND
AEAVHKKLLGLPPEIVPVVGLEMGHADPPEPAGIKPPLPQEAIVHWDITYTEKNLELIDSYD
RALDTYYSRYGQHQLWSKQTAHRAASKSFSKTNRQFLRGVFERAGFGLR

>RXN02591 TRANSLATE of: rxn02591.seq check: 6816 from: 1 to: 1830
MTTAAIRGLQGEAPTCKNKELLNWIADAVELFQPEAVVFVDGSAEWDRMAEDLVEAGTLI
KLNEEKRPNSYLARSNPDSVARVESRTFCSEKEEDAGPTNNWAPPQAMKDEMSKHYAGS
MKGRMTMYVVPFCMGPISDPDPKLGVLTDSEYVVMMSRIMTRMGIEALDKIGANGSFVRC
LHSVGALEPGQEDVAWPCNDTKYITQFPETKEIWSYSGYGGNAILAKKCYALRIASVM
AREEGWMAEHMLILKLINPEGKAYHIAAAFPSACGKTNLAMITPTIPGWTAVVGGDDIAW
LKLREDGLYAVNPENGGFGVAPGTNYASNPIAMKTMEPGNTLFTNVALTDDGDIWWEQMD
GDAPAHLLIDWGMNDWTPESDENAAHPNSRYCVAIDQSPAAPEFNDWEGVKIDAILFGGR
RADTVPLVTQTYDWEHGTVMVGALLASGQTAASAEAKVGTLRHDPMAMLPFIGYNAGEYLQ
NWDIMGNKGGDKMPSIFLVNWFRRGEDGRFLWPGFGDNSRVLKWVIDRIEGHVGADETVV
GHTAKAEDLDLDGLDTPIEDVKEALTAPAEQWANDVEDNAEYLTFGLPRVPAEVHSQFDA
LKRISAHA

>RXN02596 TRANSLATE of: rxn02596.seq check: 6451 from: 1 to: 1203
MTESKNYDLIVVGSGLFGLTVAERAASQLGKKVLIVERRSHLGGNAYSEAPETGIEIHK
YGAHLFHTSNTRVWEYVNOFTSFTGYQHRVFAMHNGTAYQFPMGLGLINQFFGKYSPDE
ARELIKEQSAEIDSSDATNLEEKAIISLIGRPLYEAFIRDYTAKQWQTDPNLPAIGNITRL
PVRYNFNRRYFNDTYEGLPTDGYAAWLEKMAEHELIDVRLDWDVDRDDLRASNPDAV
VYTGPLDLYFNYAEGKLGWRTLDFTETEVVETGDFQGTTPVMNYNDADVPTRIHEFRHFHP
ERDDSYPKDKTVIMREFSRFADNEDEPYYPINTPDDRMLKQYRLLAEEAANNKVLFGG
RLGTYQYLDHMAIGSALSMDNKLVPFFEEGTPLEQERGH

>RXN02654 TRANSLATE of: rxn02654.seq check: 5233 from: 1 to: 885
MISLLNDPRTLFPKVDPPKQSQPEPGLDIKLSPPQADIGLSSYQGSGRKGRKALITGGDS
GIGAAVAIAAYAREGADVAIAYLPEEQADADRVLQAIETGQKAFSFPGLDRDPEYCRSLV
QETVNALGGDLILVNNASRQVWAPGLTEITDENFDQTLQVNLYGSFRVTKAAIPLKPGS
SIIFTSSIQAYQPSITLLDYAMTKAALNNLSKGLASSLIGDGIRVNSVAPGPFWTPLQPS
HGQPQEKIEGFGQHAPIGRAGHPVELAGAYVFLASDEASYVVGETLGVTTGGTPTP

>RXN02674 TRANSLATE of: rxn02674.seq check: 2941 from: 1 to: 1452
VTATFAGIDATKHLIGGQWVEGNSDRISTNINPYDDSVIAESKQASIADVDAAYEAAKKA
QAEWAATPAAERSAIYRAAEELLEEHREEIVEWLKESGSTRSKANLEITLAGNITKESA
SFPGRVHGRISPSNTPGKENRVYRVAKGVVGVISPNFPLNLSIRSVAPALAVGNAVVIK
PASDTPVTGGVIPARIFEEAGVPAGVISTVAGAGSEIGDHFVTHAVPKLISFTGSTPVGR
RVGELAINGGPMKTVALELGGNAPFVVLADADIDAAAQAAAVGAFLHQGQICMSINRVIV
DAAVHDEFLEKFVEAVKNIPTGDPSAEGTLVGPVINDSQLSGLKEKIELAKKEGATVQVE
GPIEGRVLVHPHVFSDVTSDEIAREEIFGPLISVLKADDEAHAAELANASDFGLSAAVWS
KDIDRAAQFALQIDSGMVHINDLTVNDEPHVMFGGSKNSGLGRFNGDWAIEEFTTDRWIG
IKRS

>RXN02675 TRANSLATE of: rxn02675.seq check: 8425 from: 1 to: 1857
MNEFDQDILQEIKTELDELILELDEVDTQTHSEAIGQVSPHYPHYVGARNLMHYAHLRTKDLR
GLQQLRSSVGATRLTTTEPAVQARLKAARNVIGAFAGEGPLYPPSDVVDFAFEDAIDEILDE
HAEILLGEPLDPTPSCIMVTLPTAATDIELVRGFAKSGMNLARINCAHDDDETVMKQIMID
NVHTVAEEVGREIRVSMDLAGPKVRTGEIAPGAEVGRARVTRDETGVLTTPAKLWITAHG
SEPVPAPESLPGRPALPIEVTPEWFDKLEIGSVINVPDTRGSRRRAFTVTRVFDGAVLAEG
PQKAYISNGTLLHNYDRSRVYGIPAVVQRINLKVGDRLILTDEELTYDPSLGSGRTPRI
SCTLPQAVDAIKVGHVRLFDGGAIAAVCIDKTSTADGHNDVELEVTHARPQGVNLAAYKG
INLPDSELPLPSLTHEEDLQHLRFVVKYADIAAISFIRNVADVEYLLQALADIGDPVAVER
LGLVLKIETIPGYEGLAQILLTGMRHENFGIMIARGDLAVELGFDRMAEVPQLIMALAEA
AHVPTILATQVLENMAKNGLPSRAEITDAAMALRAECVMLNKGPHINDAIKVLTEMSRKL
GASQRKSRLLLRKVKSWEE

>RXN02688 TRANSLATE of: rxn02688.seq check: 959 from: 1 to: 669
MAGRIILLRHGQTHNNVKHLLDTRPPGAELTDLGRKQALEVGHELATYSGERLAHVYSSI
VLRAQQTAVLATSTFEKARDMQSGAIPLDVVEGIEINVGDFEMRGDEEAMNYSRALNG

WLHGDPAAGLPGGETYKDVLNRYQPTLDRIMDSHDLDDDRDVAVVSHGAVIRIVATHATG
VDPNFANTYLGNCRFVVLPEPNGKFSQWDVVRWTDSPWPQE

>RXN02765 TRANSLATE of: rxn02765.seq check: 9432 from: 1 to: 759
MSNQLPDHVRDAFQVGAGPAEQLGQAWDFGFRVGNVFAKVTAPEVSGWSSKTRETLKPE
GVRVVRPIRSTDGFRFVAGWRASVFSTGTISKRVDET VVAGLRLADALVDTHAPEPVDNV
FNRADVQAWEEQPRIGELLEPINRVNQVGHADMLATTLYAGTQPPAVTDLVPVLRPHGF
TAALVIVDGLLLGAVDEGILRRFSLPEIEQLVLR AFLFRRLQEFSENNDPNVISNLNR
VESTLVSYVSDKI

>RXN02803 TRANSLATE of: rxn02803.seq check: 251 from: 1 to: 657
VSGEMLAALASAGMASQGV DVIRVGVIPPAVAF LTDDYGADMGMISASHNMPDPNGIK
FFSAGGHKLPHDVEDEIERVMDSLPAEGFTGHGVGRVIEEATDAQDRYLEHLKEAVPTSL
EGIKIVDAANGAASVVAPTAYEAAGATVIAIHNKPDSYNINMDCGSTHIDQAQPPVLKH
GADLGLAHDGDADRLAVNKDANLVDGDQIMALLAIAMK

>RXN02821 TRANSLATE of: rxn02821.seq check: 9220 from: 1 to: 240
MNEIILAQDATESTITGLGAVGYGIATIGPGLGIGILVGKALEGMARQPEMAGQLRTTMF
LGIAFVEALALIGLVAGFLF

>RXN02829 TRANSLATE of: rxn02829.seq check: 1194 from: 1 to: 273
MQKNILKSGIEISELGLGCM SLGTDYKKAQPIIESAIDNGITYFDTADIYDQGVNEEIVG
KALKKYQNRDDIVIGTKVGNRLTDDGHMTWD

>RXN02920 TRANSLATE of: rxn02920.seq check: 9771 from: 1 to: 912
MKFVMPHPLWESTTAVIEGGHERVEDIKDADFIFFNGSAPEFPDLPENIKFVQASMAGI
DALVKRGVVNEKARWANAAGLYADTVAESTIGLILAQMHHMATT RLAKSWSVRPEVENNK
SWLHDNKTVAAILGAGGIGVRLLEMLKPFNVKTI AVNNSGRPVEGADETFAMDKAHVWAE
ADVFLVILPLTDATYQIVNAETLGKMKPSAVVVNVGRGPLINTDDLVDALNNGTIAGAAL
DVTDPPEPLPDSHPLWEMDNV VITPHTANTNERIRALTGELTLRNIELFEAGEQMATEVDV
VAGY

>RXN03014 TRANSLATE of: rxn03014.seq check: 5818 from: 1 to: 906
YVGFEVLLVASVLLTLGASPARVRSVGYVMVSMASMVFLFGLAMVYASVGT LNMAHV
GLRMEDVPSGTRS AIFAVLLVAFGIKAAVFPLDSWLPDSYPTAPSLVTAVFAGLLTKVGV
YSIIRARSIIFTDGLD TMLMWVALATMLIGILGAMAQNDIKRLLSFTLVSHIGYMI FGV
ALGSAQGLSGAIFYAIHHILVQTS LFLVVGLVERQAGSSSLRRLGSLAYISPLLAILYFI
PAINLGGIPPFSGFLGKIMLIEAGARRWQLAGMGPYRRRRCHLTAHLVHHGSGLVQGLLA
RP

>RXN03015 TRANSLATE of: rxn03015.seq check: 9736 from: 1 to: 282
LGVGTPQQKGTAAADLT YVRQVVEDLVPLLEGEHII FGKSTVPVGTAEQLQELADSLVKP
GSHVEIAWNPEFLREGYAVKDTITPDRIVVGVRE

>RXN03030 TRANSLATE of: rxn03030.seq check: 5862 from: 1 to: 564
VLPLDPAASLKIYPLVTGR TKIDEVQLQLEAAIRAE LPGVTLVSSESEADLAIVWARPEI
ALFEDDLEGVSLSDPRANGVDVERVQAVEAAVPTILAVNFTNPWVLSEIEPGAAAVVGT
FEIKPEFLLKALTGQEGGPKGKLPLTV PASMQAIA DSPRIDPGKFLDESYTYVDSAGMAY
KYGHGLNF

>RXN03043 TRANSLATE of: rxn03043.seq check: 4634 from: 1 to: 1362
DLDGFRQEVSRQGGIPSYPHPHGMKDFWEFFTVSMGLGPMDAIYQARFNRYLENRGIKD
TSDQHVAFLGDGEMDEPESRGLIQQAALNNLDNLTFV VNCNLQRLDGPVRGNTKIIQEL
ESFFRGAGWSVIKVVGREWDELLEKQD GALVEIMNNTSDGDYQTFKANDGAYVREHFF
GRDPRTAKLVENMTDEEIWKLPRGGHDYRKVYAA YKRALETKDRPTVILAHTIKGYGLGH
NFEGRNATHQMKKLT LDDLKLF RDKQGIPITDEQLEKDPYLPYYHPGEDAPEIKYMKER
RAALGGYLPERRENYDPIQVPP LDKLRSVRKSGKQQIATTMATVRTFKELMRDKGLADR
LVPIIPEARTFGLDSWFPTLKIYNPHGQNVVPVDHDLMLS YREAP EGQILHEGINEAGS
VASFIAAGTSYATHGKAMIPLYIFYSMFGIP AHR

>RXN03044 TRANSLATE of: rxn03044.seq check: 1253 from: 1 to: 831
MARGFLLGATAGRTTLTGEGLOHMDGHSPVLASTNEGVETYDPSFAYEIAHLVHRGIDRM
YGPKGEDVIYYITIYNEPTQPAPAEPEGLDVEGLHKGIIYLYSRGEGTGHEANILASGVGM
QWALKAASILEADYGVNRANIYSATSWVNLARDGAARNKAQLRNPAGADAGEAFVTTQLKQT
SGPYVAVSDFSTDLPNQIREWVPGDYTVLGADGFGFSDTRPAARRFFNIDAESIVVAVLN
SLAREGKIDVSVAAQAAEKFKLDDPTSVSVDPNAPEE

>RXN03056 TRANSLATE of: rxn03056.seq check: 8420 from: 1 to: 678
LDAAGISLSAVGSDFGKINITDPFEDHLERARHGVEVAKLFGAKYIRMFSFFIAEGDNPE
SFRKEVLSRTHAMVELAEAGGITLLHENEGKIYGDSPQRVKDLITSIDSPNYRAIYDAAN
YVQTGFKPFDEAWPIVKDYVDYVHIKDATIPDAEHPIGIKPAQGQDQYPELLAALNAD
GYNGFVSIEPHGLDFDEFGGLCGPDLWTSACDALAGILNNINAEYN

>RXN03057 TRANSLATE of: rxn03057.seq check: 8669 from: 1 to: 672
LASDLGIKFVAVVDKDLTAEKFATGLGAAGDSSESSVKAHGSPLALFSKKKIDVLHITT
PHDQHIGLALEALHHGVNVILEKPLANELDQAQRLIDYLDENPDGPKIAVCYQNRYNVSS
QELRRLDSDGLGAINGAYSSVWTRTPGYTQKPWRGQQAHS GGGLLMNQAIHTLDDLQ
WFLGKATEVKGTVSTDKYADVIDVEDTAHAYIGHESGVHTSEVS

>RXN03061 TRANSLATE of: rxn03061.seq check: 2307 from: 1 to: 330
VSLTFPVINPSDGSTITELNHDSTQWMSALSDAVAAGPSWAAKTPRERSVVLTAIFEAL
TERAQELAEIIHLEAGKSDAEALGEVAYGAEYFRWFEEAVRLPGRYQGS

>RXN03076 TRANSLATE of: rxn03076.seq check: 6328 from: 1 to: 1590
MDESRLSFGTAGLRAPVGPARGHQMNVLQVTRTTAGVASWLAERAALNPVPHLVPEDETG
IGRALYPQDGPLRVVGYDARYGSHTFAATTAEVFAGAGFEVTLPTSPPTPLIPWLVNK
HGLDAGVQITASHNGAADNGYKVFLSNGRQLYSELEPELEAHINAVEDPIRVPRVTVRPT
ADQLRRYVDEMVS LVPDQADLLRVN SERGNLRVYVYALHGVGGRAMANAFQFAGFPHTH
GVKAQQYPDPFTPTVAFPNPEEPSAIELLLERAKEKNADILFALDPDADRCVAGIRTADG
GHRMLSGDEVGTLATRLVPEYSSEGPRPVVATTVVSSQLLGIIAEDKGWDYSETLTGFK
NLSRAADGLDGLAFAYEEAVGTCPVPDVVPDKDGISTALFMASWAAELKAQGASLQOKL
NELYRRYGYFASSQIAVRTSSPRELVDHWIAHPQOELIGVSVTPHILPEKQGIALHGQVG
HVHIRAIGRVSGTEAKAKLYLEVQOASSHDEAAQLLHQLEDEVQSWLSKL

>RXN03083 TRANSLATE of: rxn03083.seq check: 465 from: 1 to: 1023
MAKRIVIIGGGPAGYEAAALAGAKYGAEVTVIEDVGVGGSVAVTMDCVPSKSFIAGTGIKTD
LRRADDMLNRLGLGAHLEIDALNIRVKDLAKAQSEDLGQLQRSDVRMINGVGRFDDYN
TKQTTHYIKVTHSDGSEETVECDLVLVATGATPRILKGAEPDGERILTWRQVYDIEELPT
HLIVVSGVGTAEFVSFAELGVKVTMVASRDRLPHDDADAADVLETVLAERGVSLKHX
ARVESVTRTEDGGVCVRTADGREIYGSHALMTVGSIPNTADLGLNIGVELAPSGHIKVD
RSPAPTSVPCTQQVTVLTYSHWRPLQRCRAVSPCITHSVKA

>RXN03086 TRANSLATE of: rxn03086.seq check: 7524 from: 1 to: 408
MADQAKLGGKPSDDSNFAMIRDGVASYLNDSDPEETNEWMDSLDGLLQESSPERARYLML
RLLERASAKRVSLPMTSTDYVNTIPTSMEEPEFPGEDEMEKRYRRWIRWNAAIMVHRAQR
PGIGVGGHISTYAGAA

>RXN03087 TRANSLATE of: rxn03087.seq check: 9553 from: 1 to: 213
MKIYAPFAGIVHYFVDEGDPVETGMQLGTVETIKLEAPIMAPGPGIVAKVSFDDFSDVTG
GDELLELEAKN

>RXN03096 TRANSLATE of: rxn03096.seq check: 423 from: 1 to: 402
MVLVWSKAFWRDRKDAPDGATALARPAPLVDIQDEVAVKDRNDVGRMPWGMVFSTALLVS
ASLAVSVLAGPLSSITGRAAESAQDVNIYRAAVLGPTTSTHHAHSRWSVTTPTAMTSTTA
STPMERRTNHDQWI

>RXN03101 TRANSLATE of: rxn03101.seq check: 8362 from: 1 to: 582
ILADEDDTVDVGAVIARIGDANAAAAPAEAAAAPAEAAAEPVKEEPKKEAAPEAPATGAA
TDVEMPELGESVTEGTITQWLKAVGDTVEVDEPLLEVSTDKVDTEIPSPVAGTIVEILAD

EDDTVVDVGAVIARIGDANAAAAAPAEAAAAPAEAAAAEPVKEEPPKKEEPPKKEEPPKKEAATTPA
AASATVSASGDNVP

>RXN03112 TRANSLATE of: rxn03112.seq check: 9249 from: 1 to: 504
VEIFGKTVGIVGFGHIGQLFAQRLAAFFETTIVAYDPYANPARAAQLNVELVELDELMSRS
DFVTIHLPKTKETAGMFDHLLAKSKKQIIINAARGGLVDEQALADAIESGHIRGAGFD
VYSTEPCTDSPLFKLPQVVVTPHLGASTEEAQDRAGTDIADSVLKALA

>RXN03117 TRANSLATE of: rxn03117.seq check: 3867 from: 1 to: 1512
MITHEVRTHRSAEEFPYKKHLAHKMARVAADPVEVAADTQEMIITRIIDNASVQAASVLR
RPVSSARAMAQVRPVT DGRGASVFGLPGRYAAEWAAALANGTAVRELDHDTFLAAEYSH
GDNIPPILAAAQAGKGGKDLIRGIATGYEIQVNLVRGMCLHEHKIDHVAHLGPSAAAGI
GTLDDLVDVTIYQAIGQALHTTTATRQSRKGAISSWKAFAPAFAGKMSIEAVDRAMRGE
APSPIWEGEDGVIAWLLSGLDHIYTFPLPAEGEAKRAILDYTKESAEYQSQAIDLAR
SMGEKLAAQGLDLRDVDSIVLHTSHHTHYVIGTGSNDPQKFDPDASRETLDSIMYIFAV
ALKDRAWHHERSYAPERAHRRRETIELWNKISTVEDPEWTRRYHSVDPAEKAFGARAVITF
KDGTVVEDELAVANAHPLGARPFAREQYIQKFRTLAEGVVSEKEQDRFLDAAQRTHELED
LSELNIELDADILAKAPVIEGLF

>RXN03144 TRANSLATE of: rxn03144.seq check: 7951 from: 1 to: 900
TTTATRQSRKGEISSWKAFAPAFAGKMAIEAMDRAMRGESESPAPIWEGEDGVIAWLLSGK
DHVYHVPLPEHGEPLGILETYTKESAEYQSQAIDLARMKPLVDAAGGTEHIAEIVL
RTSHHTHYVIGTGANDPQKMDPQASRETLDSIMYIFAVLQDGVWHHEFSYTRKRSTRP
ETVHLWKIRTVEDPEWTRRYHSDDPAKKAFAKAVITMADGTVIEDELAVADAHPLGAR
PFARENIEKFRTLAQGIVIDSEQERFLHAVQSLPDLDDLQNLNIEVDISNQAATKAGLL

>RXN03150 TRANSLATE of: rxn03150.seq check: 9986 from: 1 to: 624
VEAQFTSPLLNGQTCFLGTRILAPKSRYAEEVVDAAFTAFAGSLQVGTSSPDTQIGPMAT
ARQRERVESYISQGNAGARITVGGSRPRDLDAFFVEPTVFADVDNRAAIAQDEIFGPV
PSVVSQDDEHAIQLANDSEFGLGGTVWTS DPERGAALARRVHTGTIGINRYIPDPAAPF
GGVKNISGLGRELGPGLASYQETQTIYL

>RXN03179 TRANSLATE of: rxn03179.seq check: 7214 from: 1 to: 666
AREAWRIFMSHWDLYAGTATGYWVEQEFHVFGINAERLNVGTPEHADAIFDELTDILAK
PDFRPRALAEQFNLEVLATDDPLDDLADHKALADDPFTSPRVLPTRFPDAYTKMYNAGW
AEKTTKLIDTAGDGKAGWEGYLQAMRNRRQYFINHGATSADHGLHDTDTTPLSHKDAQKI
LDKGLAGTATLAEMHAFEANTTYRSRKCPRRRLVMTIHQVCT

>RXN03180 TRANSLATE of: rxn03180.seq check: 39 from: 1 to: 510
FGENKDLISDSSFNRLWRTVSLGSTQDADMAAASNLAAANSKMARQNTDILDVSDGGVM
LGRNGALVLGPVVGTLHIKFIAPLNKRVERVMYKTGLSEAAAAEQCALEDRLREEMAHAL
YQWNPGRDENYDLVINTGSMTYEQIVDLVVETYARKYPLHVRIIPNGKDQ

>RXN03186 TRANSLATE of: rxn03186.seq check: 9438 from: 1 to: 210
MADQAKLGGKPSDDSNFAMIRDGVASYLNDSDPEETNEWMDSLDGLLQESSPERARYLML
RLLERASAKR

>RXN03187 TRANSLATE of: rxn03187.seq check: 1211 from: 1 to: 279
VAVSDFSTDLPNQIREWVPGDYTVLGADGFGSDTRPAARRFFNIDAESIVVAVLNSLAR
EGKIDVSVAQAQAEKFKLDDPTSVSVDPNAPPE

>RXS00584 TRANSLATE of: RXS00584.seq check: 7788 from: 1 to: 1125
MHSPERQEKMSPPVSLNAASTSNKRVAHFHELPSPTDLIAANPLTPKQASKVEQDRQDIADIFAGDDD
RLVVVVGPCSVHDPEAAIDYANRLAPLAKRLDQDLKIVMRVYFEKPTIVGWKGLINDPHLNETYDIPE
GLRIARKVLIDVNLDLVPGCEFLPNPQYYADTVAWGAIGARTTESQVHRQLASGMSMPIGFKNGTD
GNIQVAVDAVQAQNPFFFGTSDDGALS SVVETAGNSNSHII LRGGTSGPNHDAASVEAVVEKLGENAR
LMIDASHANSKGDHIRQVEVVREIAEQISGGSEAVAGIMIESFLVGGQAQNLDPAKLRINGGEGLVYGQS
VTDKCIDIDTTIDLLAELAAVRERRAAAK

>RXS01260 TRANSLATE of: RXS01260.seq check: 3260 from: 1 to: 1182

VTFNYEDAHKRSRGVSDKIVGGVHYLMKKNKIIIEIHGLGNFKDAKTLEVTGDKDAGKTITFDDCIIATG
SVVNTLRGVDFSENVVSFEEQILNPVAPKKMIVIVGAGAIGMEFAYVLGNVGVDTVIEFMDRVLPNEDA
EVSKVIAKAYKKMGVKLLPGHATTAVRDNGDFVEVDYQKKGSDKTETLTVDVRVMVSVGFRPRVEGFGLE
NTGVKLTERRGAEIIDDYMRNTNVDGIYAIGDVTAKLQLAHVAEAQGIIVAETIAGAETQTLGDYMMMPRA
TFCNPQVSSFGYTEEQAKEKWPDRKIVASFPFSANGKAVGLAETDGFAGIVADAIEFGELLGAHLVGN
ASELINELVLAQNWDLTTEEISRSVHIHPTLSEAVKEAAHGSGHMINF

>RXS01261 TRANSLATE of: RXS01261.seq check: 5376 from: 1 to: 171
VTEHYDVVVLGAGPGGYVSAIRAAQLGKKVAVIEKQYWGGVCLNVGCIPSKVSDQKR

>RXS01758 TRANSLATE of: RXS01758.seq check: 8853 from: 1 to: 1017
MPKYIAMQVSESGAPLAANLVQPAPLKSREVRVEIAASGVCHADIGTAAASGKHTVFPVTPGHEIAGTI
AEIGENVSRWTVGDRVAIGWFGNCGDCAFCRAGDPVHCRERKIPGVSYAGGWAQNIIVPAEALAAIPD
GMDFYEPAPMGCAGVTTFNALRNKLDPGAAVAVFGIGGLVRLAIQFAAKMGYRTITIIARGLEREELAR
QLGANHYIDSNDLHPGQALFELGGADLILSTASTTEPLSELSTGLSIGGQTLIIIGVDGGDITVSAAQLM
MNRQIITGHLTGSANDTEQTMKFAHLHGKPLIERMPLDQANEAIARISAGKPRFRIVLEPNS

>RXS02574 TRANSLATE of: RXS02574.seq check: 9855 from: 1 to: 1008
LARAQIPEQQRDQVASLMMVGVANYDQALDALNQGVGGIFIGSWTDENLLTEPGRNIEALREAVGRDFS
VSIDFEGGRVQRATNILGDFPSPRVMAQTMTPEQVEDLAEILGTGLAAHGVTNVFAPVVDVDAWGLPVV
GDRSFSNDPAVAATYATAFAKGLSKVGITPVFKHFGHGRASGDSHTQDVVTPALDELKTYDLIPYGQA
LSETDGAVMVGHMIVPGLGTDGVPSSIDPATYQLLRSGDYPGGVPFDGVIYTDLDSGMSAISATHSPA
AVLASLKAGADQALWIDYGSLGSAIDRVDAAVSSGEYPQEQLASALRVQLLYITRLEQK

>RXS02735 TRANSLATE of: RXS02735.seq check: 6182 from: 1 to: 705
MVDVVRARDTEDLVAQAASKFIEVVEAATANNGTAQVVLTTGGGAGIKLLEKLSVDAADLAWDRIHVFFG
DERNPVPSDESNEGQAREALLSKVSIPEANIHGYGLGDVDLAEAAARAYEAVLDEFAPNGFDLHLLGMG
GEGHINSLPHTDAVKESSAKVIAVFDSPKPPSERATLTLPVHSAKRVWLLVSGAEKAEAAAAIVNGE
PAVEWPAAGATGSEETVLFLLADDAAGNL

>RXS03215 TRANSLATE of: RXS03215.seq check: from: 1 to: 1008
IDVVSVVVANFLHREIVEALLASGKHVLCCKPLSDTIEDAEAMIEAAGRAATNGTIARIGLTYRRSPGV
AHIRDLVQSGELGKVLHVTGHYWTDYGSNAQAPISWRYKGPNGSGALADVGSHTLYLAEFVAGSDFAAV
RGGQLSTVITERPKPLGAIVGHEGGAVSDEYEAVENDDIASFSGSFIGGGTATLQVSRIQGHNPNTLGF
EVFCEKGSVLFDFRNSGEFKIFTPATSGDISQEAGYRTITIGPKHPYWRGGLAMDAPGVGIGQNEGFVF
QARAFLEEIAGISEAESLPRCATLEEGHNMQLIDAVSQSAAAGGETVAVPAAALIPANN

>RXS03224 TRANSLATE of: RXS03224.seq check: from: 1 to: 1158
MSFAEHAIWVYPLGALGAPIRPEAPVTHRLPNLIGWLDYVVELGCNALMLGPVFESVSHGYDTLD
FYRIDPRLGTEEDMDALLEANQRGIGVLFDFGVFNHVSSSSKYLDLTGASFEGHDILAELDHTNPVAV
DLVVDVMNHWLDRGIAGWRLDAVYAIAPFEWKEKVLPEVRRKHPHAWIVGEMIHGDYSDYVKSSGIDSVT
EYELWKAIWSSIKERNFFLEWTLRHNFLDTFVPQTFIGNHDVTRIATRIGQSNAILAAAILFTVGG
TPSIYYGDEQGFGLKEDNVFGDDAIRPPLPAEFSPLGTWIENIYKALIALRRQHPWLYQAHTEVLEIA
NEAMTYKSVGLGGEELTVHLDLEEVSVRILDGEKVLQYSA

>RXC00233 TRANSLATE of: RXC00233.seq check: 7055 from: 1 to: 417
MSVNEADLNAVEEQLGRAPRGVLDISYRSPDGVPGVVMTPAKLDDGTPFPPTLYYLTDPRLTTEASRLEV
ALVMKWMTDRLSTDEELRADYQRAHEHFLAKRNAIEDLGTDFSGGMPDRVKCLHVLIDYALAEPPHFL
L

>RXC00236 TRANSLATE of: RXC00236.seq check: 116 from: 1 to: 726
MVISFVGWALSFMGTAPIRQLQOIPEDVPPARGVEVPQIDTEADGRTSNHLRFWAEPQAQDTGVSAQA
IAAYGNAELIASTAWPGCNLGNWNTLAGIGQVETRHTYNGKMFGGSSLDENGVA TPPIIGVPLDGSPGF
AEIPD TDGGELDGDTEYDRAVGPMQFI PETWRMLGLDANGDGVADPNQIDDAALSAANLLCSNDRDLST
PEGWTA AVHSYNMSNQYLM DV RDAAASYALRQPAI

>RXC00271 TRANSLATE of: RXC00271.seq check: 7582 from: 1 to: 990
MFSSRSKVLASIFTVGALALASCSSDSSDSTSDAAGGDSYRVGINQLVQHPALDAATTGFKEAFEEA
GVDVTFDEQNANGEQGTALTISQQFASDNLDLVLAVATPAAQATAQNITDIPVLF TAVTDAVSAELVDS
NEAPGGNVTGTSDIAPIEQQLELLQQLVPDAKSIGIVYASGEVNSQVQVDEVTKAAEPLGLSVNTQTVT

TVNEIQQAVEALGDVDVIYVPTDNMVVSGISSLVQVAEQKQIPVIGAESGTVEGGALATLGIDYTELGR
QTGEMALRILQDGEDPATMPVETATEFTYVINEDAAERQGV EIPQEILDKAERV

>RXC00338 TRANSLATE of: RXC00338.seq check: 9343 from: 1 to: 1140
VSDVTVGDIRRILDEAYPPALAESWDKVG LICGDP TESVKRVGLALDCTQAVADKA VDMGLDMLIIHHP
LLLRGVTSVAAD E PKGKVIHTLIRGGVALFSAHTNADSARPGVNDKLAELVGITAGRPIATRLLGGMDK
WGVHVL PKDAAYLKMLFDAGAGAIGDYRECAFEIEGTGQFRPVEGANPAEGDV DKLFSLELRIEFVA
PRNLRLRLTSVLREAHPYEPAFDIVEMHSAESLENATGLGRVGELPEPMRLAD FVQQVANNLPVTEWG
VRATGDPEQMVSRAVSSSGSGDSFLNDVIKLGVDVYVTSDLRHPVDEYLREGGPAVIDTAHWASEFPW
TSQAQEILQDKAPQVEVDVISIRTD PWTMSARAVN

>RXC00362 TRANSLATE of: RXC00362.seq check: 1707 from: 1 to: 1347
MGIIALLVFIAIAVILNVFLKRDI SEALLVGLVGTALVGGVNAPTLLIDAVVDAAQSEVTFAGMAFVFM
GIVVQSTGLIDRLIAILNSIFGRLRGGAGYVSTLGSALIGLIAGSTAGNSATVGSVTIPWMKKTGWTA E
RSATLVAGNSGLGVALPPNSTMFIILALPAAAASSASQVYIALACGGAYAVLYRLAVVFYWRKDKIPA
TPDDQRV SFGEAMKTGWRSP LI FLGILIPVILTIGLPSEWLKTHGVGESGVKSM SIIVWPILITAIAL
IEGRKRIANNMAHFRVQISKDL PQFATVGISLFSALAAANIMEELGVGPQLSNWLD SMDLPKSV MVIIV
CIMCIVVATPLSSTATAAAIGAPAVAALAAV GIDPTVAIVVILLCTSTEGASPPVGAPIYLSAAIADAN
PTKMFVPLITYFVVP MILLAWLVGMGFLPVIVPTG

>RXC00412 TRANSLATE of: RXC00412.seq check: 7568 from: 1 to: 1080
VSHTASTPTPEEYSAQQPSTQGT RVEFRGITKVFSNNKSAKTTALDNVTLTVEPGEVIGIIGYSGAGKS
TLVRLINGLDSPTSGSLLNGTDIVGMPE SKLRKLRSNIGMIFQQFNLFQSR TAAGNVEYPLEVAKMDK
AARKARVQEMLEFVGLGDKGKNYPEQLSGGQKQRVGIARALATNP TLLLAD EATSALDPETTHEVLELL
RKVNRELGITIVITHEMEVRSIADKVAVMESGKVVEYGSVYEVFSNPQTQVAQKFVATALRNTPDQV
ESEDLLSHEGRLFTIDLTETSGFFAATARA AEQGA FVNIVHGGVTTLQRQSFGKMTVRLTGNTAAIEEF
YQTLTKTTTIKEITR

>RXC00526 TRANSLATE of: RXC00526.seq check: 7744 from: 1 to: 690
MSLIEMRNIVKTYNIGSEGELTVLHGVD FHVDRGEFVS VVGTS GSGKSTMMNII GLLDKPTDGT YTLDG
VDVLDISDDALASHRAKSIGFVFQNFNLIGRIDALKNVEMPM MYAGIPAKQRRSRVELLEMVGMGERL
NHEPNELSGGQKQRVAIARALANDEPIILADEPTGALDSATGRMVMDI FHQLNKEQGKTIVFITHNP EL
ADESDRVVTMVDGRIIGSEVKHS

>RXC01004 TRANSLATE of: RXC01004.seq check: 9066 from: 1 to: 1062
VSIWATVLLIIIVLLSANAFFVAAEFALISSRRDR LDSLVSQGKKGA EKVLYATEHLSIMLAGAQFGITV
CSLILGKVAEPAIAHFIEVPFTSWGVPNDLIHPISFVIALAIITWLHILFGEMVPKNIAIAGPETLGMW
LAPVLIAFVKITRPLIEFMNWIARLT LRAFGVEQKNELDSTVDPEQLASMISESRSEGLLD AE EHARLS
KALRSEQRSIKELVIKDEDVRTLAFGKSGPTLHQLEEAVRETGFSRFPVTGRDGSYLG YIHIKDILPRL
ADPEMDPSETIPRSALRPLSNVDADGLMDDVLD FFMHYRSAHMAQVRLKGELLGVITLEDLIEEYVGTVN
DWTHESSDD

>RXC01017 TRANSLATE of: RXC01017.seq check: 6264 from: 1 to: 609
MAQKVTFWFDTTC PFCWVTSRWI KEVEQVRDIEIQWVPMSLAVLNEGRDLPEDYKERMKA AWGPARVFA
AVATDHADKLGDLYTAMGTRIHN DGRGPIEGSFNDVIAEAL EEVGLDAALGEVADTT EWD DALRAFHQT
AMDEVGNDVGTPVVKLGDTAFFGPVLTRIPRGE EAGEIFDASFKLASYPHFFEIKRSRTENPQFD

>RXC01021 TRANSLATE of: RXC01021.seq check: 6144 from: 1 to: 522
MSSSESSRSEGSQPAPSVQPERRADSTGAPAAASKEASQQMDAAGVLEWARTAVEQLSERRAEINALNV
FPVPDADTGSNM TYTMTAALDEALKLGELGDVARITEALAVG SVRGARGNSGVLSQVLRAIAQAAADG
VIDGHTIQEALS IARSLVDRAITDPVEGTVVTVLRS

>RXC01212 TRANSLATE of: RXC01212.seq check: 3583 from: 1 to: 924
MPMTTTPAIDVTDLVRTYGDYTA VKGLNFHVQRGEVFGLLGTNGAGKTSTLEVIEGLSAPSSGTVRISG
LDPVADRILRPELGIMLQSGGLPSQLTVAETMDMWHGTCTYPRAIKDV LADVDLLHRENVKVGALSGG
EQRRDLACALLGDPSILFLDEPTTGLDPESRRHTWQ LLLDLKQRGVTMMLTTHYLEEAEFLCDRIA IM
NAGEIAVEGTLDELVAREKSIISFVL RGGQVELPVLSGAEIIRDNNHVRIATTTLQQHTLEILT WAAET
GIALEGFAAKPATLESVFMDIASLENTSLQTA

>RXC01306 TRANSLATE of: RXC01306.seq check: 7259 from: 1 to: 1008

MTEWYVVL PATILLIALSAFFVIEFALLAARRNRLEETVETSRSSRAALRSLNELTLMLAGAQLGITM
VTFALGAITKPWVHYALMPLFEWARIPLVMADVIAFILSLFIVTFLHLVIGEMAPKSWAIAHPETALRT
IAIPARGFINLFRPLLQWINKMANDLVRKVGETPVDRAAAGGYD TDTLHALIEHSRETGALDQQSAAQI
SGI IKLDKITVGQTLTASPFTHSASATVAEVQAAAQRSGSLRVLIDAPSHLFPVHVRDTLGASPDEK
ASKWSRPILTVAETDTLHQALEYMRHNEQISAVLSADGKTVLGVITWDHILKYLWPASV

>RXC01366 TRANSLATE of: RXC01366.seq check: 5562 from: 1 to: 390
VSQFRRCSRPGCGKPAVATLTYYASDSTAVVGPLAPAAEPHSWDLCEHHAERITAPLGWEMLRVNDIKV
DDDEDLTALAQAVREAGRTVSGLVPEDDEVGGNHPVNRSARIAEQKVHRRGHLYVVPDQDES

>RXC01372 TRANSLATE of: RXC01372.seq check: 5614 from: 1 to: 591
QDTFVLPTLPTAAGLSPARIVASISTLLDLLEADPSIISDRLEHLADCIDEEVESLSPERDELVNPGRK
LRAVVDHARIVHTGRDVGGLAIANVIAPIWTRRGLVSAVLDPELMESLPELRGPEPITDDIFHDPFID
DEPGVVPFRVAVWAEPEPGIPDAMAQSCDGP SKGALTQALRLLVRGQSATTYSIEEKDL

>RXC01659 TRANSLATE of: RXC01659.seq check: 8569 from: 1 to: 546
VAGVAQRFVDERIHVGLDSMPEAVTAVWMESDWVLAETIKGSTPSDWEEILRPLALLTDASFTLPPRST
RAQTLDLKHLEPSRLKPEQPEKPAFTPNASEEDLSQPLVIRPEEPLQMPVRGVQESRGVVEPRSLGADD
VESIAEGDPERPSDLYGTRVLRDLNGQSSIFQDSTDADEPPKKW

>RXC01663 TRANSLATE of: RXC01663.seq check: 7844 from: 1 to: 858
MEISVLIIAALILVAGIVLWRADSSKQAAKKAESPVGSVAPAPVLVEEEDPEFEPELDPEPEAQPEPE
LEVAPRFAPEPVQDLEPDQAEDIYFDDSPELDADVENALAELETEVEDYPEEPVQSEQPQAPATAEVAAD
EEQRGVDKHSFLSSLPQSRRERRRNWAAKHHD FIKEDAFLTDEWSRGAASTGAVARDVVGMAEGYET
HLVDLAGVPMAMRRGITS DVVIDARRGEQPADPEREESDDLVEIDTVSGFRLLSTWRGLRSVLSTSAF
TSVWIPCQKL

>RXC01693 TRANSLATE of: RXC01693.seq check: 6379 from: 1 to: 1422
MNTAPFKLEADFASALPTMAAPWQGEAPNPELVILNDDLAYSGLDPTWLRTPEGVQFLLGLNPEPLT
KAVAQAYS GHQFGQFVASLGDGRALLLGEARSADGVLDHIHLKSGSRTQFSRGADGRAVLGPVLREYII
SEAMHALGVPTTRSLAVISTGRKIQRGSVAPGAVLVRVATSLIRVGSFQYSNISGGIELSQHLANYTIT
RHFP SLVAELSAPT PATYVSLFKAILQRQADTVGKWTRLG FVHGALNTDNTLISGETVDYGPCAFMERY
RGDAKFSSIDTYGRYKFENQPMILGWNMARLVETLLPLLGPATPDEGMTAAQEALVEFDDLCEQAIRKEF
ATALGLDES DTGTVEQFRELLYLHNPDIITLLRALDNTAPP SGFEAFVHDWKTQDPDIEAMRAVNPLF
IPRNHLVEAALADAVEGNLEKFHELLAAVTNPFDP TAGPDELRLPSEEGFEEDYMTFCGT

>RXC01703 TRANSLATE of: RXC01703.seq check: 3504 from: 1 to: 1113
VAWPSNAKEKLFHWHYWWQAHYLDCLVDAARRRTTKARRDRIRDTIRGISVRNVGKLT SNRYDDKAW
LALAGRAGKVRKVRTPKSLPSLEQNIVD GIDSLTGVL PWRSGETFYNVPSNGPAAIMMARTDRLEAM
KITDWIFDNLIDGDLVMDGLMRMHGPELVRSIHPYCQGVAGACLEIALKLRERAGLT TTVVDHWS
ADKAEDSLKYFAHIHAVVQAVSRKMTNFHGVIDWD TGDGDGGLFKGILVRYLADVAIRLPDDSPNTRET
KKIAARLVLESAESVWNHRLEVDGLPVFATDWT TDARLPQNFGLSSSSSLDLSVVRVDERDLSVQLSG
WMLMEAAAKVAELENNGNSYTGRSR

>RXC02254 TRANSLATE of: RXC02254.seq check: 1030 from: 1 to: 777
IAVAEEGGLWENLLQHRFGGHGALAGHALGNLVIAALTDILGTSQHALDQIAQLAGAKGRIIPVCAEPL
DLEAEVSGLDSDARVMRQVRGQVAVAAATPGQVRRVRIIPDNPEPNPAAIEAILDADLVTLGPGSWFSSV
IPHILVPGIVDALAQTKATKT VVLNLTSEPGETAGFSAERHIHVL RQHARNLQVDQVIVDAKTLSSQTE
RNHVERAARTLGAEVSFHDVQAEDGRGRFTSIH DPAKLCAALLASFAGARKR

>RXC02255 TRANSLATE of: RXC02255.seq check: 729 from: 1 to: 936
VAKNSVRAAEVSAILRFAGEMQAVGGKLVIEANLDSMQVGMRLQEFIQGLYNSRVDVHTVNPTVSRKTP
RYLVRIIDNADEIARRTGLVTRSGHVVKGLAPSVVSGTISDAEAAWRGAFLANGSLSDPGRSSSLEVLC
PGQESALALVGCARRIGIAAKTKDSRGFDRVNV RDAEAI GALLTRMGAQKTRMLWEEKRIKRESRTPQT
GLANFDDANLRRSARA AVAAAARVERAMKILGDDVPHELAEGQLRVQHRQASLEELGRLADPQMTKDA
VAGRIRLLTMADKRAEDLKIPDTNSVVTEDLLEEI

>RXC02435 TRANSLATE of: RXC02435.seq check: 470 from: 1 to: 558

VTDNLGSTSIGDAWILYAPLMDDGGFGPLRAIGGMFLHIGPGHMLLNVLWLLGREIERDFGSALFTA
MYFVGGIGASAAVIWMDPYSPTAGASGAIYAMMAILVGLFVLRADIRAPLILIAINIAYTLMSTNVSL
WGHLGGLITGALITWPMVKAKTQRTWIIIVLIGFAVVVAAILGIDRV

>RXC03216 TRANSLATE of: RXC03216.seq check: 470 from: 1 to: 558
MKLGLYNAIFHDRTLPEALAAIKAAGLTGIELNTGGFLPATHIPTIDDILVSDDARDEFLGIFEGTGVD
IYGLNCNGNPLHPNKAIGDKHAEDIRRSIRLAERLGQNRVVTMSGPGEPPGAKYTNWVVNAWNSAALD
VLDYQWDIAAEFWRETDRFAADHGKVALELHPQNIIVFNSADVHKLIDLTGATHVGVELDASHLFWQQM
DPIAVIDHLGELIFHAAAKDVRVKNKEWAQLNGVLDNSFRRLDPSENRTNLGGDEWANEPKNSAWDFVA
LGRGHDVAYWTEFLRALHRVDPNMLVNIHEDVSLGREEGVNEAAKVLIEANKALEESLVS